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Cover: A selection of products from Venture Lighting, Axo Light, Citizen Electronics, Lite Brite Neon, Bover, Kalco Lighting, Luminos Design, Cooper Lighting, Schonbek, Highlites, Mule Lighting, and Resolute (left to right, top to bottom).

This page: Sachs Morgan Studio's New World Stages, a 2006 Lumen Award winner; Luxo's Arca Twin; Valo Lighting's Inflection TW 751; and Spiralight by Robin Carpenter, student winner of the Lights of the Future 2006 competition at Light + Building (page 17).

Additional information at www.archlighting.com
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By the Dawn's Early Light

OUR ART DIRECTOR SAID, AT NEARLY 1:00 A.M. THIS MORNING, AFTER READING A first version of the editorial, "Don't tell them how tired we are. People like to think things are effortless." It's now 3:00 a.m. (and several unsuccessful rounds of revisions later), and I've decided to be entirely candid anyway: We're tired.

More than half of our seven yearly issues—four to be exact—have been produced in less than five months, a feat of no small proportion with a group our size, and with a week-long trip to Light+Building and the A|L Residential supplement wedged in there. When this editorial is written, the last page as usual, it will be a sigh of relief heard around the world.

The wonderful—and sustaining—thing is, despite the demands of the last few months, we've still laughed a lot, which actually often does make this feel effortless. And here is the message that must inevitably be contained in these eleventh-hour (or third-hour, as the case may be) hymns: if you're not having a good time, what exactly is the point? A committed staff, with a great sense of humor, goes a long way toward helping one reach seemingly oversized goals. They—Elizabeth, Sallie, Jennifer, Casey, and Carrie—deserve a public thank you for their late-night efforts and enduring levity in the thick of it all.

I'm doubly lucky, however. It is also the community around which A|L revolves that makes this project fun. Put a bunch of lighting practitioners in a room, and in my experience, you inevitably get a party. You also find yourself surrounded by creative energy and interesting conversation—about light obviously, but it often stretches beyond those confines. At a recent event, I found I share years of Latin instruction with the managing director of Erco. Who knew?

A|L genuinely appreciates its relationships with the designers and manufacturers that make up this industry—and not just for the aforementioned good times. It is these essential connections that keep the magazine a relevant resource, and thanks to the genuine good will and accessibility of our friends and contacts in the field, aid significantly in making this effort appear effortless. With the May issue, we have rotated the editorial advisory board, to include four new personalities that we look forward to counting among this network of supporters: Gregg Ander, chief architect of Southern California Edison; Francesca Bettridge, principal of Cline Bettridge Bernstein Lighting Design; Robert Davis, senior instructor at the University of Colorado at Boulder; and Mark Loeffler, the lighting and sustainable design director for environmental management and consulting firm The RETEC Group. Beyond general distinction in the industry these practitioners represent, in their professional focus, a few of the issues that weigh most on the industry's collective mind: daylighting and sustainability, high design, successful practice management, education, and research. We heartily thank our previous board—James Benya, Howard Brandston, Renee Cooley, Craig DiLouie, and Kenneth Douglas—whom we have come to count as friends. (We are thrilled to have Jim and Howard stay on with us in the capacity of editors at large.)

With that said, I am just a few words away from a short break, before the exhausting but fun-filled days I've come to look forward to each year. See you all at Lightfair.

Sigh.

EMILIE W. SOMMERHOFF
EDITOR-IN-CHIEF

JUNE/JULY EXCHANGE QUESTION
The dark sky movement has gained momentum in recent years. How do you feel it is impacting the practice of lighting design and manufacturing?

SEND RESPONSES TO EXCHANGE@ARCHLIGHTING.COM
Although Thomas Alva Edison's incandescent light bulb in 1879 is generally recognized as the "birth" of modern lighting, technological advancements in the industry have been many, and creating a comprehensive timeline is a historical research project of great proportions. What follows below is A|L's selection of some of the innovations that have helped move lighting forward, and that will provide the foundations for the inventions of tomorrow.

<table>
<thead>
<tr>
<th>Year</th>
<th>Category</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1932</td>
<td>LAMPS</td>
<td>The first low-pressure sodium lamps are introduced in Europe by manufacturers Philips, Osram, and GEC.</td>
</tr>
<tr>
<td>1936</td>
<td>LAMPS</td>
<td>George E. Inman of General Electric files for a patent for the fluorescent lamp.</td>
</tr>
<tr>
<td>1945</td>
<td>BALLASTS</td>
<td>Advance Transformer produces the first fluorescent ballast.</td>
</tr>
<tr>
<td>1947</td>
<td>CONTROLS</td>
<td>The first electronic dimmer is introduced.</td>
</tr>
<tr>
<td>1962</td>
<td>LEDS</td>
<td>Nick Holonyak Jr. of General Electric develops the first practical visible-spectrum light emitting diode (LED).</td>
</tr>
<tr>
<td>1964</td>
<td>LAMPS</td>
<td>Tungsten halogen PAR and metal halide lamps are introduced in New York at the World's Fair.</td>
</tr>
<tr>
<td>1975</td>
<td>LAMPS</td>
<td>General Electric Lighting markets an architectural version of a halogen dichroic reflector lamp, calling it the Precise MR16.</td>
</tr>
<tr>
<td>1980</td>
<td>LAMPS</td>
<td>Osram and Philips introduce the compact fluorescent lamp. It uses 20 percent of the power of an incandescent lamp, and lasts up to 13 times longer.</td>
</tr>
<tr>
<td>1986</td>
<td>CONTROLS</td>
<td>The DMX-512 protocol is first developed by the United States Institute for Theater Technology as a means of controlling dimmers from consoles using a standard digital interface.</td>
</tr>
<tr>
<td>1990</td>
<td>LEDS</td>
<td>The first blue LED is introduced by Japanese manufacturer Nichia.</td>
</tr>
<tr>
<td>1996/1998</td>
<td>LAMPS</td>
<td>T5 and T5HO lamps are developed.</td>
</tr>
<tr>
<td>1997</td>
<td>BALLASTS</td>
<td>Philips Lighting introduces the first dimming ballast for T5 lamps.</td>
</tr>
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LIGHT, FRANKFURT STYLE

THE NUMBERS ARE IN. THE BIENNIAL FRANKFURT-LOCATED LIGHT+BUILDING, HELD FROM APRIL 23 TO 27, LOGGED a 16 percent increase over its 2004 attendee numbers, from 116,000 visitors two years ago to 134,489 this year. Show manager Messe Frankfurt also reported international participation of 32 percent (up from 27 percent two years ago). While not all of the 119,000 square feet of exhibition space was devoted to lighting (the show also incorporated engineering, home and building automation, and architecture-related systems), there was more than enough on the 15 lighting-devoted floors to keep the ambitious visitor busy for at least five days—and sore for many more following.

Among U.S. attendees, the response was overwhelmingly positive, particularly for first-timers who cannot help but be impressed with the sheer volume, as well as the general quality, of everything from product to booth design. (At least this is the case in the main halls—a few of the pavilions are afflicted with the same familiar trade show schlock.) Attending for the first time, David Clinard, a lighting designer in the exhibition department of New York’s American Museum of Natural History, says he was impressed to see manufacturers “spending time and energy on product development, instead of just making adjustments to existing product lines. They are interested in new ways of integrating lighting into architectural spaces.” The show, he notes, will definitely be on his 2006 itinerary.

Messe Frankfurt reported a significant increase in U.S. exhibitors for the 2006 show. While the total number was only 22 (versus China’s 290, for example), it represented a 375 percent increase over 2004’s number. Of the countries with the most exhibiting manufacturers, only a few saw a decrease from 2004 to 2006: Switzerland, Taiwan, and Turkey. (See “Top Exhibitors by Country,” left.)

In addition to aisle after aisle of product, a number of interesting extracurricular events engaged show goers. The “Lights of the Future” competition honored luminaries that combined energy efficiency with design—among them products from Artemide, Hess Form+Licht, and Reggiani. Young Designer awards were also given: first prize went to Robin Carpenter for her Spiralight, second to Bettina Wassermann for the Luna luminaire, and third to both Henning Bögershausen for Blattwerk and Sabrina Catin Meyer for Light-It.

Outside the fair grounds, the Luminale program offered a series of installations, events, exhibits, and other points of interest around the city and outlying neighborhoods—more than 160 in total. Each project was autonomously funded and organized, but unified in its focus on light. A Luminale city tour was offered (though this was booked long in advance), as well as a nightly bus circuit, to help visitors view the illuminated sites—some permanent, most temporary. The European Lighting Designers’ Association also partnered with the IALD to host a “Celebration of Light” at the Frankfurt Opera House. The evening of drinking and dancing featured a presentation by Luc LaFortune from Cirque du Soleil, and a light show in the building’s main volume.

Altogether, from the show floor to the city outside, the Light+Building event is a must for design practitioners that work with light. Mark your calendars now for April 6 to 10, 2006. For more information on the show, visit light-building.messefrankfurt.com/frankfurt. AIL will report on product trends from Light+Building in its July/August 2006 issue.

AND ON TO LAS VEGAS AND LOS ANGELES ...

FROM ONE SHOW TO THE NEXT. With Lightfair and the AIA Convention just a week apart, the spring/summer design conference schedule is packed. For those in need of a break from seminars and product exhibits, here is a sampling of projects worth seeing.

LAS VEGAS

The sounds and sights of Las Vegas change faster than the blink of an eye. Here are some new additions since Lightfair was held two years ago and some old favorites.

- Cirque de Soleil’s Ka, MGM Grand
- Fix Restaurant, Bellagio
- Mix, at THEhotel, Mandalay Bay
- Nextel-sponsored Las Vegas Convention Center Monorail Station
- Shibuya Restaurant, MGM Grand
- Water and Light Show, Bellagio Fountain (shown)
- Wynn Las Vegas

LOS ANGELES

With a wealth of extraordinary architectural sites in and around Los Angeles, the downtown area has several jewels of its own, old and new.

- Biltmore Hotel
- Bradbury Building
- Caltrans 7th District Headquarters
- The Cathedral of Our Lady of the Angeles
- Los Angeles City Hall
- Los Angeles Public Library
- Museum of Contemporary Art (MOCA)
- Walt Disney Concert Hall (shown)
ACUITY OPENS NEW YORK OFFICE

In a move that will provide direct access to its customer base, Acuity Brands Lighting, the parent company of Lithonia, Holophane, Gotham, Hydrel, and Peerless, is opening a new sales and marketing office in New York City. "We've elected to open our own office servicing the New York market, rather than go through traditional intermediary distribution methods," says Douglass M. Baillie, vice president of corporate communications. The new office will work with clients in the city's five boroughs, Suffolk and Nassau counties on Long Island, and Westchester, Putnam, and Rockland counties outside the metropolitan area. Spectralume Sales Agency, which previously handled sales representation for Acuity in these locations, will continue its relationship with the company by servicing the northern New Jersey market.

According to the company, this decision reinforces Acuity's commitment to its customer base of architects, lighting designers, and contractors in the New York market whose reach extends well beyond the local scene. It also relays Acuity's confidence in the building and construction markets. The team is presently working out of temporary space, until the fall opening of its new offices in Manhattan's Chelsea neighborhood. The new space will function as a lighting center, similar in approach to Acuity's facility in Conyers, Georgia, with a lineup of events, educational seminars, and a working lab. "We want architects, lighting designers, and all design and building professionals to see this as an extension of their working environment," explains Sero Cardamone, who will direct the New York operations. Mark Rousch, who has joined Acuity and will play a leadership role in the New York office, echoes this sentiment: "The new office will foster greater communication with early adapters and industry leaders." The more robust and direct business model should prove a great resource to the New York design and building communities. The company will issue an announcement when the sales offices and lighting showroom are complete. In the meantime, all inquiries should be addressed to Sero Cardamone at 212-462-0088.

SOLOS: MATALI CRASSET

The work of French industrial designer Matali Crasset will be the focus of the fourth installment of the Solos exhibition series at the Cooper-Hewitt National Design Museum in New York City. The exhibit, which runs from May 19 to September 24, 2006, examines the role of technology in residential settings and includes industrial design products, graphics, theater sets, wallpaper, and furniture.

Light and sound both play an important role in the installations: "Splight" is a floor-to-ceiling lighting fixture constructed of fluorescent micro-tubes and blown glass. "Immersion" is a home-entertainment seating unit that integrates an LCD flat screen and DVD system. "DFuse" (below) is an illuminated igloo-like structure with an audio component, designed for meditation and made of translucent cones, while "Sounddrops" also provides an interactive music experience with small speakers and microphones hung from a soft-cell seating unit. Though this will mark the designer's first solo museum exhibit in the United States, her work is in the permanent collections of the Centre Georges Pompidou in Paris and the Museum of Modern Art in New York. Before forming her own company, Crasset worked with Philippe Starck for five years. She has designed for several companies, including the lighting manufacturer Artemide.

The Solos series was launched in 2003 to explore innovations in the fields of architecture and design. For more information, visit www.cooperhewitt.org.
NATIONAL DESIGN AWARD FINALISTS

The Smithsonian's Cooper-Hewitt National Design Museum in New York City has announced the 18 finalists of its 2006 National Design Awards from a pool of nominations submitted by a committee of more than 800 leading designers, educators, journalists, cultural figures, and corporate leaders nationwide.

Now in its seventh year, the awards program began in 2000 as an official project of the White House Millennium Council to honor achievement in the design world, recognize the most outstanding contributions encompassing all areas of design from the past year, and increase awareness of design by educating the public and promoting excellence. While lighting design is not one of the award categories, those such as architecture, interior, landscape, and product design offer an outlet for lighting as an integral component of great projects and ultimately a designer's success.

This year's finalists "consistently challenged the possibilities of design and have demonstrated innovation through their work in various fields," says Cooper-Hewitt director Paul Warwick Thompson. The seven-person jury, chosen by the museum, is made up of Cindy Allen, editor-in-chief of Interior Design; Yves Behr, founder of San Francisco-based design firm fuseproject; Michael Bierut, a partner at New York graphic design firm Pentagram; Roger Mandle, president of the Rhode Island School of Design in Providence, Rhode Island; Enrique Norten, founder of New York- and Mexico City-based architecture firm TEN Arquitectos; Janet Rosenberg, founder of Canadian landscape architecture firm Janet Rosenberg + Associates; and Stefano Tonchi, style editor for the New York Times Magazine.

The 18 finalists represented six categories of design: architecture, communications, landscape, interior, product, and fashion. In the architecture design category, Thom Mayne, principal of Morphosis, a Santa Monica, California-based architecture and design firm; Stanley Saitowitz, principal of Natoma Architects in San Francisco; and Bernard Tschumi, principal of Bernard Tschumi Architects, were recognized. Michael Gabellini, principal of Gabellini Sheppard Associates in New York; Annabelle Selldorf, principal of New York-based architecture and design firm Selldorf Architects; and Tsao and McKown Architects, an architecture and interior design practice in New York, were announced as finalists in the interior design category.

Winners will be chosen from these finalists, and award recipients will be honored at a gala held at Cooper-Hewitt on October 18, 2006. For more information, visit www.cooperhewitt.org/NDA.

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2006 LUMEN AWARDS

The 2006 Lumen Award winners represent a diverse array of talent. Awards will be presented at the Lumen Gala in New York City on June 14, 2006. For complete information visit www.iesny.org.

2006 LUMEN CITATIONS

PROJECT The Porter House, New York, NY
ARCHITECT SHoP Architects

PROJECT Dodger Stages
(now called New World Stages), New York, NY
ARCHITECT AND LIGHTING DESIGNER Sachs Morgan Studio

2006 LUMEN AWARDS OF MERIT

PROJECT Terminal 1, Lester B Pearson International Airport, Toronto, Canada
LIGHTING DESIGNER Brandston Partnership
ARCHITECTS Airport Architects Canada with Skidmore Owings & Merrill

PROJECT 111 South Wacker Drive, Chicago, IL
LIGHTING DESIGNER Cosentini Lighting Design
ARCHITECT The John Buck Company

PROJECT Frisson, San Francisco, CA
LIGHTING DESIGNER Scott Kester

PROJECT Mixed Greens Gallery, New York, NY
LIGHTING DESIGNER Tillotson Design Associates
ARCHITECT Leven Betts Studio Architects
INTERIOR DESIGNER Ghislaine Vinas

PROJECT The National World War II Memorial, Washington, DC
LIGHTING DESIGNER Horton Lees Brogden Lighting Design
PROJECT OWNER National Mall & Memorial Parks
ARCHITECTS Leo A Daly and Friedrich St. Florian Architect
LANDSCAPE ARCHITECT Oehme, van Sweden & Associates

PROJECT Chanel Ginza, Tokyo, Japan
ARCHITECT Peter Marino + Associates Architects
LIGHTING DESIGNER Tanteh + Associates

LUMEN AWARD OF MERIT WITH DISTINCTION FOR CIVIC SERVICE
PROJECT Higgins Hall Central Wing, School of Architecture, Pratt Institute, Brooklyn, NY
LIGHTING DESIGNER Arc Light Design
DESIGN ARCHITECT Steven Hall Architects
ARCHITECT OF RECORD Rogers Marvel Architects

PROJECT Robin Hood Library Initiative - PS 32, Bronx, NY
LIGHTING DESIGNER Renfron Design Group
ARCHITECTS Tod Williams Billie Tsien Architects

From top to bottom: SHoP Architects' Porter House; Sachs Morgan Studio's Dodger Stages; Renfron Design Groups' Robin Hood Library Initiative - PS 32; and Arc Light Design's Higgins Hall.
A WIND FARM FOR THE SOUND

Power generation has reached a new level of importance these days. Beyond where and how it will happen is the question what will it look like? In response to an ongoing public debate about Massachusetts's Cape Wind Associates' proposed development of America's first offshore wind farm, three young Boston designers organized Windscape, an ideas competition envisioning renewable energy for Cape Cod. This Boston Society of Architects-facilitated competition called for project submissions that rethink the environmental and visual issues and impacts of such a development.

The Cape Wind Associates proposed development employs 130 wind turbines in the Nantucket Sound, intended to supply 70 percent of Cape Cod and surrounding islands with clean and renewable power. The competition required that the Windscape submissions address the addition of the turbines to the physical and cultural landscape, and respond to the following overall challenge: Can a wind farm be more than just a utility to generate electricity? Submission requirements included designing an educational experience to connect public visitors to the wind park, as well as secondary uses, such as recreation, research provisions, tours, and installations. Concepts were judged by a national group of artists, architects, landscape architects, and environmental and renewable energy advocates.

Three winners were chosen from a pool of 66 international submissions. First place and $5,000 was awarded to Paul Michael Pelken and Markus Hermann of Energy Design Lab in Boston for their submission named “e50_energy island.” The concept, according to the judges, was a deeply integrated, clever solution, addressing the larger issue of energy use, while reducing the number of turbines to 50 and creating an environment to attract local residents and tourists.

The second-place prize of $2,000 went to “Dan Der Turbines” by Rafal Waneka of Germany, Ton Matton of Germany and the Netherlands, and Albert Jansen of the Netherlands. Their central idea was to place the turbines across the water and onto the land, integrating them into the existing landscape, rather than obscuring them. A Special Citation went to “Martucket Eyeland Resort and Theme Park” by Jay Critchley of Provincetown, Massachusetts, and John Paul Raymond of Leicester, Massachusetts, for their satirical interpretation.

The judges selected five additional submissions to be part of a traveling exhibition. It can be seen at the Massachusetts State House Doric Hall in Boston from June 12 to 30, 2006. For more information, visit www.architects.org/shaping_communities.
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ASK DESIGNERS AND MANUFACTURERS WORKING IN CHINA TODAY—OR JUST VISITING, for that matter—what their overriding impression of the country is and they’ll tell you “construction.” China’s 1.3 billion inhabitants are experiencing an unprecedented economic and building growth. According to an October 2005 New York Times article, “China Builds Its Dreams, and Some Fear a Bubble,” Shanghai, a city that already boasts 4,000 skyscrapers (defined by the Chinese as a structure over 18 stories high), plans to build 1,000 more high-rise buildings by the end of this decade. The country is racing to create new housing and office space to make up for an absence of construction that occurred during China’s communist rule that began in 1949.

It is not only the amount of new construction that is astonishing, but rather the pace. Development is on a scale beyond even the largest master plans familiar to most U.S. architects and designers. China’s current rate of new construction is akin to building multiple Manhattans by 2010. The upcoming 2008 Summer Olympics in Beijing is helping to fuel this construction frenzy, along with the investment of foreign capital in the Chinese real estate market. This building boom will not come without a price. New construction requires materials and resources. China is currently the largest producer and consumer of steel, cement, and coal, and owing to its heavy reliance on the latter, the country is the second largest producer of greenhouse gases after the United States. The excessive demand on these resources has both short- and long-term effects: it drives prices up globally, depletes natural reserves, and otherwise stresses the environment.

It is expected that 75 million farmers will move to cities over the next five years. This loss of farmland to make way for new cities, and the migration of rural residents to urban locations, is another critical problem that goes well beyond infrastructure issues. It speaks to a major shift in the social and cultural structure of the country, the loss of a local agrarian base, and the end of a way of life for a majority of China’s population. Further complicating this situation is the destruction of the historic fabric and architectural legacy of major cities like Beijing and Shanghai to make way for new high-rise towers. How China manages its growth will not only impact its internal economic, social, and political infrastructures, but the global community as well.

Efforts like the China Green Lights program and Right Light 6 are steps in a positive direction for a sustainable future, as China attempts to align its rapid growth with long-term resource management.
MAKING CHOICES

Embracing sustainability and green design is one way in which China is addressing its rapid growth and management of resources. It is also a method of communicating and promoting China as a "modern" forward-thinking country to an international audience. These issues of market growth and environmental sustainability equally impact the Chinese lighting industry. According to a paper presented at last year's Right Light 6, a collaborative, not-for-profit conference organized by an international group of environmental agencies, the country's move to privatization has introduced new manufacturing relationships, joint ventures, and foreign-owned companies to the Chinese economy. Italian lighting manufacturer Targetti is but one recent example. It opened its first Asian facility, an 86,000-square-foot factory with 150 employees, in June 2005, just outside the city of Guangzhou in an emerging manufacturing district in Guangdong Province. The new facility produces the Targetti collection for Asian consumers, and the company has developed a Mandarin catalog to support this business. Targetti has also established Heshan Targetti, a joint venture between the Italian parent company and Neo Neon, a leading Chinese LED manufacturer with over 15,000 employees.

These types of manufacturing relationships have led to more rapid product development, and along with this growth, an understanding of a systematic approach in how resources are managed. "There is a reasonable understanding among government officials," says Adam Hinge, managing director of Sustainable Energy Partnerships, a company specializing in energy-issue consulting, and one of the co-organizers of the May 2005 Right Light 6 conference, "that the economy can't keep growing at this rate. A number of initiatives are underway to figure out how to create a green GNP to not just create through depletion."

To this end, China has implemented several international programs for its lighting industry, such as the Green Lights project, which works toward improving the efficiency...
and quality of lighting products. The country is also stepping forward as a conference and venue host for the international community, with the hope that discussing these pressing issues on its own turf will initiate real change that much faster.

CHINA GREEN LIGHTS
One of the most significant projects afoot in the Chinese lighting industry is China Green Lights, a joint initiative of the Chinese government and the United Nations Development Program/Global Environment Facility (UNDP/GEF). The project's purpose is three-fold: to improve the quality of efficient lighting products produced and sold in China; to stimulate demand for these lighting products both nationally and internationally; and to reduce lighting energy use in China by 10 percent by 2010. Planning for the program began in 1996, although it was not implemented until September 2001, and was just completed in December 2005. The final evaluation report states that the program's four immediate aims—to increase the supply of high-quality lighting products; to create demand for energy-efficient lighting products by raising awareness and understanding among key categories of consumers; to provide sustainable financing options for efficient lighting and make quality lighting more affordable; and to evaluate and disseminate widely the project results achieved—were successfully met. During this approximate four-year span, the total lighting energy savings in China was 15.78 billion kW—the equivalent of $986 million in electricity cost savings. Estimated emissions related to lighting were reduced by 4.3 million tons of carbon. The summary encourages the Chinese government to find funding to continue the program, and prepare a detailed action plan for the remainder of 2006 and 2007.

RIGHT LIGHT 6
For the first time in its 14-year history, the Right Light conferences program was held outside of Western Europe, in Shanghai. Leading experts presented over 100 papers...
industry | report

discussing energy-efficient lighting technologies, applications, policies, and program design topics. The conference was held concurrently with one of China's largest lighting fairs, the China Association for the Lighting Industry (CALI) annual exposition and trade show. The move across the continent was no surprise. As the agenda stated, "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 allowed energy-efficient lighting specialists to meet Chinese manufacturers, regulators, and policymakers.

Today, China has the largest lighting industry in the world. In a presentation at Right Light 6 by Chen Yansheng, president of CALI, figures indicate that there are 6,000 lighting product manufacturers, and 1,000 light source manufacturers in China. At the close of 2004, China's gross lighting exports of products neared $7 billion, with more than half being sent to the United States. Chinese manufacturers mainly produce ballasts, luminaires, and electrical accessories. In addition to the proliferation of compact fluorescents, metal halide is the second largest lamp type coming out of China.

Given its abundant exportation, the compact fluorescent lamp (CFL) featured heavily in the Right Light 6 conference, namely CFL standards for the United States, China, Australia, and Europe. CFL production in China increased by 26 percent from 1997 to 2003, making this sector and the code regulations attached to it of particular interest to the importing countries. Specifically, the sessions covered 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 Green Light Regulations; draft proposals for the coordination of Chinese Certification and Efficient Lighting Initiative CFL standards; and draft proposals for the coordination of Australian and Chinese CFL standards.

QUALITY CONTROL
Despite Chinese manufacturers' best efforts to enter the international market with their products, the world's perceptions of Chinese quality is proving a major roadblock. Coupled with this concern is the prevalence of cheap imitations, With billions of dollars on the line, manufacturers are aggressively protecting their intellectual and design property, making many still wary of doing business in the Asian market.

Efforts by both Chinese and international companies are now being made to change the negative perception of Chinese-produced products in the minds of international consumers. According to Mike Bauer, president and CEO of Super Vision International, who opened a Hong Kong office in 2003, U.S. and European architects and lighting designers want to know that they are specifying products from brand-name companies, and that the product is produced in a contracted facility with quality assurance. In fact, many of the global companies with production facilities in China, such as Philips and Osram, have separate factories for local and international production. This makes it easier to ensure and enforce quality beyond just marking products with a quality-inspection check. The irony, as Bauer relates, is that Chinese architects and lighting designers prefer to specify U.S. and European manufacturers for the same reasons their western peers do: perceptions of quality.

No doubt China has a way to go, but efforts like Green Lights and Right Light 6 are a step in the right direction. An influx of western design firms, along with a new generation of internationally trained Chinese design professionals, accustomed to U.S. and European methods and returning to practice in China, will surely play a role in the country's transformation and help facilitate the changes that are necessary.
The direct/indirect Luminata II series

Beauty and durability. Performance and flexibility. Elegance and affordability. Only a few of the seeming contradictions that blend seamlessly in PAL's new luminaires.

A specification-grade linear fluorescent series that features suspended and wall-mounted fixtures, Luminata II offers visual impact and performance for a wide range of applications. And eliminates the need to choose between style and substance. For details, contact us or your PAL representative today.
Attune is designed to unify your lighting with your lifestyle. Each person and space within a building has different lighting demands, from aesthetic preferences to photometric requirements to installation details. Your lighting system must be a FAMILY of products "tuneable" enough to meet these needs while unifying an overall theme and providing comfortable, highly efficient illumination.
RESOLUTE | WWW.RESOLUTEUSA.COM

Product: Watt
The Watt series is a family of pendant, ceiling, and wall fixtures. The pendant has an 8-inch diameter and measures 6 3/4 inches tall with a drop of up to 6 feet; the ceiling fixture offers the same dimensions, but drops only 8 inches from its ceiling mount; and the wall version (shown) has an overall height of 10 1/2 inches and a depth of 9 inches, and can be installed in up- or down-facing positions. For each fixture, glass color choices include clear crystal, aqua, chartreuse, gold, cobalt blue, and red-orange. CIRCLE 127

AMERICAN FLUORESCENT | WWW.AMERICANFLUORESCENT.COM

Product: Wellesley
Offered in a weathered black finish, the Wellesley chandelier has five arms featuring real wax candle diffusers, each containing one energy-efficient 13W triple compact fluorescent. The same lamp is also used in a central downlight. CIRCLE 128

LITE BRITE NEON | WWW.LITEBRITENEON.COM

Product: Brookhaven and Astor
The Brookhaven (left) and Astor (right) neon chandeliers consist of 8-millimeter cold cathode tubes that can be dimmed with existing incandescent dimmers and work off of small electronic power supplies that fit snugly into the fixtures’ canopies. They are available in a range of white color temperatures from 2800K to 8500K. Brookhaven measures 24 by 24 by 35 inches, while Astor’s dimensions are 24 inches in each direction. Custom sizes can be accommodated. CIRCLE 129

BOYD LIGHTING | WWW.BOYDLIGHTING.COM

Product: Parisian
With its large diameter of almost 32 inches and solid brass structuring, the Parisian pendant offers a unique and modern twist to the traditional pendant. The luminaire comprises textured fabric side panels with a white acrylic bottom diffuser. It is available in finishes of antiqued Boyd brass, blackened brass, and satin nickel. Lamping options include incandescent or compact fluorescent, and multiple heights are offered, from 18 inches to 42 inches. CIRCLE 130

BEAR CREEK GLASS | WWW.BEARCREEKGGLASS.COM

Product: Glass Pendants
These hand-blown glass pendants containing swirls and speckled patterns are available in solid or frosted tones from ruby, amber, and cobalt to pink and ice blue. Each pendant measures 6 inches high and is up to 4 1/2 inches wide. Hardware colors include black, white, and brushed nickel. CIRCLE 131

AXD LIGHT | WWW.AXDLIGHT.IT

Product: Koshi
The Asian-inspired Koshi wall sconce is offered as part of a collection that also includes pendants of varying shapes and sizes, a surface-mounted ceiling fixture, a desktop model, and a floor lamp. It is constructed from slender, horizontally oriented bamboo rods and metal columns that together house a halogen-illuminated blown-glass globe. CIRCLE 132
BOVER | WWW.BOVER.ES
Product: Mei 90
With its subtle Asian influence and large dimensions, the Mei 90 pendant provides warmth to large spaces. The shades are ribboned by hand, diffuse three incandescent E27 lamps, have a maximum diameter of approximately 3 feet, and are available in red, cream, or white. Smaller models are also offered for residential applications. Each fixture includes a low diffuser and a transparent electric cable.

KALCO LIGHTING | WWW.KALCO.COM
Product: Galaxy
Featuring straps of solid stainless steel or brass that circle around three crystal bowls, the Galaxy collection of semi-flush-mount fixtures includes cables that allow the fixture to be suspended at any distance from 7 inches to 4 feet from the ceiling. The fixture measures 5 inches high by 64 inches in diameter, and incorporates 28 crystal-capped LEDs around the perimeter.

MINITAL LUX | WWW.ARTEDIMURANO.US
Product: Soffione
Inspired by the limbs of a tree, the Soffione collection is constructed of wires that can be molded into any number of configurations. Available in ceiling mount, wall mount, table and floor lamps, each fixture style comes with many different bulb quantities and is offered in a copper or chrome finish.

IN-ES ARTDESIGN | WWW.IN-ES.COM
Product: Tre Lune
The Tre Lune pendant features three round globes that gently diffuse light, while suspended from a single linear housing. Inspired by the moon, each globe has a diameter of just under 10 inches and uses either an E12 or a 40W lamp. Voltage requirements are 120V or 230V.

DEREK MARSHALL LIGHTING | WWW.DEREKMARSHALL.COM
Product: Marrakesh
Created using three separate, overlapping kiln-formed petals, the Marrakesh pendant creates an interesting play of light through and around its glass. Two stainless-steel screws fasten each petal together for a strong, yet delicate, sculptural fixture. The luminaire measures 12 inches in height and 8 1/2 inches in diameter, and utilizes one 100W incandescent, halogen, or compact fluorescent lamp. Chords are available in either white or black, and a wide variety of glass colors are offered.
OCL is dedicated to innovation. New fixture styles and materials are constantly being introduced. OCL is always searching for new ways to provide quality and inspiration.
PRODUCTS

DECORATIVE

ERIN ADAMS DESIGN | WWW.ERINADAMSDESIGN.COM
Product: Lume
The Lume product line of glass tile pendants features four distinct designs: Basket Border, Hatch Flair, Hatch Light, and Soldierstack. Each is constructed of glass tiles on a glass form, and offers custom lamping sources and types, as well as custom dimensions and tile color.
CIRCLE 138

SCHONBEK | WWW.SCHONBEK.COM
Product: Da Vinci
Composed of thousands of precisely positioned crystal octagons of different sizes, the Da Vinci crystal chandelier is perfectly round. Available in 10-, 12-, 18-, and 24-inch diameters, the chandelier utilizes bi-pin G9 halogen capsylites and is comprised of Swarovski Strass crystal and an invisible stainless-steel frame. CIRCLE 139

IVALO LIGHTING | WWW.IVALOLIGHTING.COM
Product: Inflection TW 751
The Inflection TW 751 wall sconce has a three-dimensional form of folds. Depending on scale and intensity, the fixture may be used alone or in sculptural combination to produce a single ripple or to cover the wall's entire surface. Designed with a non-dimmable compact lamp, the luminaire measures 23 inches wide. CIRCLE 140

SHAPER LIGHTING | WWW.SHAPERLIGHTING.COM
Product: 308 Cloud
The 308 Cloud interior pendant features individually crafted glass pieces, fired and finished with a hand-applied scratch-resistant vitreous enamel coating and offered in 20 glass colors and texture options. Its luminous center glass bowl is surrounded by four perched glass bowls. It accepts T5 (mini-can), xenon, and halogen lamps. The luminaire takes six lamps and measures 48 inches in height and 40 inches in width. It has a minimum hang height of 30 inches.

Product: 329 Silk
The 329 Silk pendant is made of a curved triangular glass plate in gold, silver, or copper leaf that offers an indirect illumination from three 75W A19 incandescent lamps. Compact fluorescent options are also available. Various sizes are offered: a 24-inch diameter with a 24-inch hang height, a 30-inch diameter with a 32-inch hang height, and a 36-inch diameter with a 42-inch hang height. Minimum hang height is 18 inches, and the luminaire is available in 15 fixture finishes, as well as custom options.

FOR INFORMATION ON BOTH SHAPER LIGHTING PRODUCTS, CIRCLE 141

ROTALIANA | WWW.ROTALIANA.IT
Product: Cloud
Designed by Japanese architect Toyo Ito, Cloud is a contemporary, free-form pendant that provides softly diffused, direct downlighting in a multidimensional aesthetic. Composed of five stacked laser-cut sheets of ultra-thin white translucent acrylic, the fixture is offered in two sizes: just under 21 1/2 inches or 32 1/2 inches in circumference. Illumination is provided by a single 40W or 60W incandescent globe lamp that is partially visible from the round aperture in the center of the fixture. CIRCLE 142

32 AIL JUNE 06
So refined. So versatile. So expressive.

Now you have more ways than ever to tailor the look and the lighting effect. Add discreet decorative touches. Choose Bounding Ray™ reflectors or glowing glass shades to complement other innovative Gotham luminaires. Minimal, subtly enhanced, or playful and edgy. Pendant, ceiling- or wall-mount. Incandescent, HID or compact fluorescent. However you specify Elevations, Gotham assures extraordinary performance in downlighting.

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**D'AC LIGHTING | WWW.DACLIGHTING.COM**

**Product: Sfumato**

The slender, tapered inverted-vase-like design of the Sfumato hand-blown Italian glass pendant casts focused light down through clear glass at the fixture's bottom, while emitting broader patterns of ambient illumination through white opal glass at the top. The luminaire is suspended from a 5-inch-diameter polished-aluminum canopy and can be lamped with incandescent, halogen, or fluorescent sources. The glass shade measures 17 1/2 inches high and 5 inches in diameter. Optional canopy finishes are available.

**ELEEK | WWW.ELEEKNIC.COM**

**Product: Piolet**

The Piolet pendant is constructed of brushed stainless steel and glass blocks, and measures 7 inches wide and 18 inches high. Offered with incandescent or fluorescent lamping, the fixture is ideal for general room lighting, mood lighting, and retail/hospitality applications.

**LUCEPLAN | WWW.LUCEPLAN.COM**

**Product: SxG**

Designed by Diego Rossi and Raffaele Tedesco, the SxG pendants allow for manual regulation of light. By sliding the reflector up, a concentrated downward light is obtained, and by lowering the reflector, the light is homogeneously directed upward. The luminaires feature an anodized- or enameled-aluminum reflector in lacquered white, black, or burgundy that measures just under 13 inches high and 15 inches in diameter. One 150W incandescent or halogen lamp is required.

**BLAUELT | WWW.BLAUELT.COM**

**Product: Baikal**

Constructed of a single piece of glass held in place by two minimal brackets, the Baikal wall sconce is suitable for bath, corridor, or foyer applications. Two different fixture lengths are available—24 5/8 inches or 36 3/8 inches; however, each measures 4 3/8 inches wide by 3 1/2 inches deep. The luminaire takes either a 40W G9 or a T5HO lamp, with quantity and type dependent on fixture size. The decorative wall bracket is offered in a grey metallic or chrome finish.

**VIBIA | WWW.VIBIA.ES**

**Product: Jazz**

With a design based on organic forms, Jazz offers a contemporary feel to the classic table lamp. At a height of nearly 3 feet, the luminaire's base is composed of polyester resin, while the shade is stainless steel. Each lamp is fully lacquered in a single shade of white, red, or black, and illumination is achieved by four 60W E27 lamps.

FOR INFORMATION ON BOTH D'AC LIGHTING PRODUCTS, CIRCLE 144
**PRODUCTS**

**DECORATIVE**

**PROGRESS LIGHTING | WWW.PROGRESSLIGHTING.COM**
Product: *Contemporary*
Featuring clear glass with an etched glass diffuser, the brushed-nickel stem-hung Contemporary mini-pendant has an overall height of 63 inches. The fixture measures 7 1/8 inches high by 12 1/4 inches in diameter and illumination is provided by one 75W medium-base lamp. CIRCLE 148

**LIGHTOLIER | WWW.LIGHTOLIER.COM**
Product: *Vetro*
The Vetro pendant series incorporates metal finishes and various decorative hand-blown polished glass options in an assortment of styles: a slim pendant, which is just under 2 1/2 inches in diameter and 14 inches in height; a medium pendant, which is 4 3/4 inches in diameter and 14 inches in height; and a selection of conical shades. Illumination is provided by a 13W to 32W triple twin-tube fluorescent with an energy-efficient commercial-grade ballast. CIRCLE 149

**OMEGA LIGHTING | WWW.OMEGALIGHTING.COM**
Product: *Origins*
The Origins family has expanded to include Italian glass elements. Featuring architectural pendants and wall sconces in hand-blown frit- and cased-glass designs, as well as hybrid pendants made of hand-formed piastra glass, the fixtures house a variety of lamp sources, including compact fluorescent, incandescent, and HID. Additionally, the family is offered in a collection of unique styles and finishes, with luminaires available in two sizes: 19 5/8 inches high by 12 5/8 inches wide, and 21 5/8 inches high by 15 3/4 inches wide. CIRCLE 153

**EUROFASE | WWW.EUROFASE.COM**
Product: *Salome*
One luminaire in a whimsical collection that includes wall sconces and chandeliers, the Salome floor fixture features glass stems in two color options: blue-black or crystal. The polished chrome frame accepts 10 G4 bi-pin lamps and the overall height is 71 inches with a width of 15 3/4 inches. CIRCLE 151

**ESTILUZ | WWW.ESTILUZ.COM**
Product: *Eclipse*
Featuring a minimalist aesthetic, the Eclipse flush-mounted wall sconce was inspired by the lunar eclipse. Available as a wall sconce or flush mount, the fixture comes in two sizes: 12 1/8 inches wide, with a 3 1/4-inch projection from the wall (taking one 150W halogen lamp); and 15 1/2 inches wide, with a 4-inch projection (taking one 200W halogen or fluorescent lamp). Finish options include nickel or satin gold. CIRCLE 152
The Wall Commander™ from Kim Lighting offers a dramatic range of up, down, and up/down configurations utilizing a single lamp source.
MIRO optical surfaces are fast replacing anodized aluminum in luminaire design, world-wide. MIRO has a total reflectivity of 95%, and MIRO-SILVER® 98%, making them today's first choice for OEM lighting manufacturers.

In major facilities that have traditional discharge lighting solutions, such as big-box retailers and distribution centers, installing modern fluorescent high-bays made with MIRO surfaces could cut lighting electricity by up to fifty percent, when the fixtures also include modern T5 or T8 lamps and the newest ballasts.

MIRO-SILVER is especially effective in saving energy. In commercial-office lighting, combining louvers made with MIRO-SILVER plus T5 lamps can achieve a remarkable 85 lumens per watt. MIRO-SILVER permits designers maximum design flexibility. Lamp positions can be moved to the center of the louver cavity without light loss. And, no longer do multiple bounces penalize efficiency. With MIRO-SILVER's 98% reflectivity, even after five bounces, 90% of the lamp-light exits the luminaire. Whereas after five reflections off an 87% efficient anodized surface the light is reduced to just 50%.

For outdoor HID lighting, architectural street lighting and area lighting use MIRO for segmented and parabolic reflectors to add up to 20% efficiency to a reflector system. And full-cut-off luminaires can comply with dark skies legislation without efficiency penalties, to meet light pollution guidelines.
**LAM LIGHTING | WWW.LAMLIGHTING.COM**

Product: Luxxtra FL

The Luxxtra FL indirect fixture features a choice of uplight only, downlight only, or combination uplight/downlight. Its disc-shaped housing, unadorned frame, and conical lens create a subtle design statement. The slender stem is also available in various lengths. Constructed of cold-rolled steel in a textured baked-enamel finish, the fixture’s illumination is provided by eight biaxial or three 120W compact fluorescent lamps.

CIRCLE 154

**LUXO | WWW.LUXOUS.COM**

Product: Arca Twin

The Arca Twin is a versatile luminaire with a podlike head that softly diffuses light. A pivoting steel attachment allows for individual positioning at any interval and the creation of symmetric and asymmetric lighting schemes. Lamping options include two 36W or two 56W 2G11 HO fluorescent lamps. The body of the fixture is metallic grey and the elliptical polypropylene cover comes in transparent or indescent colors.

CIRCLE 157

**LIGHTLIGHT BY BUSCHFELD | WWW.INTER-LUX.COM**

Product: Sky and SKYframeLESS

Keeping construction depth, weight, and materials to a minimum, and maximizing size, light, and architectural presence, Sky and SKYframeLESS can be used as pendant, surface-mounted, or recess-mounted fixtures. Sky is constructed using self-supporting, seamlessly connected, extruded-aluminum profiles, while SKYframeLESS is flat and available in fixed dimensions. Options for both include T8 or T5 fluorescent lamps, digital or analog controls, and adjustable color temperatures of 2700K to 6500K. CIRCLE 155

**BRAVE DESIGN | WWW.BRAVEDESIGN.CA**

Product: Scalar

This series of linear and asymmetrical fixtures allows for both direct and indirect office lighting, while achieving low glare and various high-quality distribution patterns. The angled, perforated aluminum "wings" can be tilted, and, when seen from different angles, the perforations overlap for a variety of views. T5 and biax lamps, as well as dimmable electronic ballasts are used. The luminaire is finished in a dye-anodized aluminum. CIRCLE 156

**DAY-BRITE LIGHTING | WWW.DAYBRITELIGHTING.COM**

Product: Attune

Offering photometric performance in standard- and wide-distribution curves, the Attune family of fixtures can be tailored to the space. Easy to install and maintain, the luminaires are available in 1-by-4-, 2-by-2-, and 2-by-4-foot housings with grid, flange, screw slot, or z-spline ceiling models. Lamp options include T8, T5, T5HO, or compact fluorescent, and diffused, round perforated, or radial louver shieldings are offered. CIRCLE 158

**FOR INFORMATION ON BOTH LUXO PRODUCTS, CIRCLE 157**
PEERLESS LIGHTING  |  WWW.PEERLESS-LIGHTING.COM
Product: Lightfoil 2 and 3
The Lightfoil family delivers abundant, even light for contemporary large-scale environments. Each throws light forward above the horizontal plane and eliminates high-angle glare, while also redirecting a small portion down the wall to soften brightness and contrast, and add visual interest. Both families can be ordered in 1-, 2-, 3-, 4-, or 5-foot lengths, each with a gently curved wing of lightweight composite material to conceal the extruded-aluminum housing, electrical components, and faceted optics. The Lightfoil 2 has a total height of almost 5 inches and a projection of almost 12 inches, while the Lightfoil 3 measures just over 6 inches high with a projection of just over 14 inches. A range of fluorescent and HID sources are available. Uniform ceiling coverage is achieved with luminaire intervals of up to 15 feet on center. CIRCLE 159

OCL  |  WWW.OCL.COM
Product: Illusion
Radiating an elegant glow from both sides of its sleek, unobtrusive housing, Illusion is an ultra-low-profile sconce that can be mounted either horizontally or vertically. Using two T8 or T5HO lamps, light is spread evenly along the length of the fixture, which measures 4 1/4 inches high by 23 or 47 inches in length, and has a shallow 2-inch projection. The luminaire can be finished in natural brushed aluminum or any of OCL’s powder-coat paints. CIRCLE 161

SCHMITZ  |  WWW.INTER-LUX.COM
Product: Turn
Turn offers a variety of configurations thanks to its available system components, such as 90-degree connectors, line connectors, middle feeders, feeder rods, and endcaps. Each anodized-aluminum fixture has a satin acrylic finish, is rotatable, and features rod suspension and lengths from approximately 3 to 5 feet. CIRCLE 162

NEO-RAY  |  WWW.NEORAY-LIGHTING.COM
Product: Symbio
The Symbio pendant offers glare-free illumination via three components—a T5 fluorescent lamp, a detailed louvre assembly, and an optically precise reflector. A convex UV-stable extruded lens is designed to expand horizontal and vertical illumination. Multi-circuited row configurations can be obtained by connecting sections of the modular extruded-aluminum raceway. CIRCLE 160

VISA LIGHTING  |  WWW.VISALIGHTING.COM
Product: Ether Uplight Wash
With a height of 3 inches, projection of 4 inches, and lengths from 23 1/4 inches to 92 7/8 inches, the Ether Uplight Wash luminaire features a low-profile linear design with die-cast endcaps and an extruded-aluminum housing. The luminaire can be mounted horizontally or vertically over a 2-by-4-foot electrical junction box. Painted finishes are available. Fluorescent lamp sources vary depending on the length of the fixture. CIRCLE 163
**PRUDENTIAL LIGHTING | WWW.PRULITE.COM**

**Product:** Snap

Snap is a low-profile striplight with a white extruded-acrylic lens that stays in place without hardware or fasteners. The lens terminates at a spring-fastened aluminum endplate, and row-mounted runs have a single intermediate plate between modules. Available with a single T8, T5, or T5HO lamp, or with two T5 lamps with an optional integral emergency battery and dimming ballast, the fixture offers standard housing lengths of 2, 3, 4, 6, and 8 feet. It can be surface mounted or suspended. CIRCLE 164

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**WINONA LIGHTING | WWW.WINONALIGHTING.COM**

**Product:** Linear Fluorescent

Useful for indoor or outdoor applications, the rugged T5 small integral-ballast linear fluorescent creates a compact, sleek, self-contained luminaire with the electronic ballast concealed within an extruded-aluminum housing. The unique hinge-lock mechanism assures watertight dependability. The fixture can be cantilever mounted, pendant mounted, or linear surface mounted, and has a cross-section dimension of 4 1/2 inches by 6 inches. Finish options include semi-gloss white, semi-gloss black, aluminum paint (matte finish), light gold iridescent (gloss finish), or pale bronze paint (gloss finish). CIRCLE 165

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**FOCAL POINT | WWW.FOCALPOINTLIGHTS.COM**

**Product:** Avenue C and D

With their extruded-aluminum rectilinear housings suspended below the ceiling, Avenue C (top) and Avenue D (bottom) offer clean lines and a crisp aesthetic. The 3 3/4-inch-high Avenue C provides either direct or indirect illumination, while Avenue D creates bi-directional illumination with its two-lamp optics in a 4 1/2-inch height. Multiple lengths are available. Both Avenue C and Avenue D take either T5 or T5HO lamps (Avenue D also features an MR16 option), and can be fitted with shields. CIRCLE 166

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**Triangular Column**

Stately and prestigious, the Triangular Column combines innovative light column attributes with high quality design engineering. Spec features that were demanded at the above installation at the University of California at Merced include high-impact-resistant flush glass, frame with no visible hardware, high-pressure die castings, and the patented MTR refractor system for glare free lighting.
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Heatron offers complete turn-key light engine assemblies manufactured to your specifications. Our application knowledge and access to an array of component level LEDs will reduce your design time and simplify your supply chain.

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The High Power LED market is new, fast moving, and dynamic. Capitalizing on the benefits of a high growth market means staying ahead of the technology curve. Heatron is dedicated to being your primary source of expertise and information on developing LED products from concept to design to prototype and final production.

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Heatron offers complete turn-key light engine assemblies manufactured to your specifications. Our application knowledge and access to an array of component level LEDs will reduce your design time and simplify your supply chain. Heatron offers you a wider range of printed circuit board technologies than any other source in the LED industry. Heat destroys LEDs. Longer life, higher luminous efficacy, and lower failure rates all result from a good thermal design for your end product. Our metal core printed circuit boards provide the heat dissipation you need to solve the toughest thermal management challenges.

Creating the optimal solution for your LED application requires a balance between several critical disciplines that make up your innovative product:
• power sources or drivers
• LED emitters
• thermal management
• secondary optics
• housings or enclosures

Heatron is dedicated to being your primary source of expertise and information on developing LED products from concept to design to prototype and final production.

See us at Lightfair Booth #2545
BETA-CALCO | WWW.BETACALCO.COM
Product: Decore III
The Decore III recessed downlight is constructed of a galvanized-steel housing and an etched glass or suspended spun metal ring, which creates a soft halo of light on the ceiling. Providing elegance to architectural interiors, the fixture can be used with compact fluorescent, HID, and halogen lamps. CIRCLE 167

LUCIFER LIGHTING | WWW.LUCIFERLIGHTING.COM
Product: Mirage Modular
Three recessed fixtures are available in this series: Square Fixed has a square aperture; Square Adjustable can rotate within its housing and adjust 40 degrees; and Square Wallwasher incorporates a kick reflector engineered to provide a smooth, wide wash of light. All can be flush mounted for zero sight line or flanged and installed in the recessed ceiling housing. CIRCLE 160

LIGHTOLIER | WWW.LIGHTOLIER.COM
Product: Lytecaster Frame-In Kit
Meeting the efficiency and environmental standards of the Energy Star program, the Lytecaster Energy Star-rated downlight frame-in kit for commercial and residential applications provides general illumination and wallwashing. The frame-in kits are available in 5- and 6 3/4-inch apertures and, according to the manufacturer, are easy to install. CIRCLE 168

HALO | WWW.HALOLTG.COM
Product: H3
The H3 family of small-aperture recessed downlights offers a minimal ceiling presence, but delivers high light output. Compatible with existing trim selections from Halo's family of 4-, 5-, and 6-inch trims, the series features nine trim styles in multiple finishes, including satin nickel, antique copper, and tuscan bronze. housings are available for multiple types of installation, including the latest code requirements. Each trim is dual listed for low-voltage 50W MR16s and line-voltage 50W GU10s. CIRCLE 170

PURE LIGHTING | WWW.PURELIGHTING.COM
Product: Aurora
The Aurora Accent Round Pure Edge 3.3 RGB recessed fixture features a hemispherical, spun aluminum dome interior that is illuminated by LEDs, while white light is projected down. With its trimless edge, the aperture completely disappears. LED technology offers color-changing capabilities. The fixture takes one 75W MR16 lamp and 18 LEDs. The recessed housing measures just under 6 inches high by 10 1/2 inches wide by 13 inches long. CIRCLE 171

W2 ARCHITECTURAL LIGHTING | WWW.W2LIGHTING.COM
Product: Precision Modules
The Precision Modules are specification-grade recessed spotlights. Featuring multiple lamps within a singular housing that is flush mounted to the ceiling or wall, the luminaires are offered in both low- and line-voltage systems and are available in square and rectangular styles that include one-, two-, three-, four-, and six-light configurations. Lamping options include halogen MR16, AR111, PAR30, PAR36, PAR38, HID metal halide, and T6. CIRCLE 172
**PRESCOLITE | WWW.PRESCOLITE.COM**

**Product: Architektur A4**

The A4 series of 4-inch aperture adjustable accent downlights provides specifiers with a fully aimable luminaire, featuring 0- to 45-degree vertical and 360-degree horizontal adjustment, hot aiming, center-beam optics, and no visible hardware from below the ceiling. The fixture includes multiple lamp options ranging from MR16 to incandescent, low- and line-voltage, and trim choices in a variety of finishes.

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**USA ILLUMINATION | WWW.USAILLUMINATION.COM**

**Product: Bevel**

A low-voltage MR16 square downlight with beveled edges, this luminaire features sloping 1-inch recess peaks with white frosted glass to produce a subtle, evenly illuminated ceiling plane. Its die-formed galvanized-steel housing accepts either low-voltage, compact fluorescent, or metal halide lamps, with trim finishes of brushed aluminum, white, black, or metalized grey. Visible interior dimensions of the fixture are 8 3/16 inches square, while the overall housing dimension is 11 15/16 inches by 11 1/2 inches. CIRCLE 174

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**KRAMER LIGHTING | WWW.KRAMERLIGHTING.COM**

**Product: Architektur D4**

The D4 collection of 4 1/2-inch aperture specification-grade downlights incorporates a twist lock socket mechanism that ensures a consistent lamp position. Using patented optical technology that produces equal cutoff at a 45-degree viewing angle in all lateral planes, the luminaire accepts compact fluorescent and incandescent lamps. D4 is offered in an assortment of trims, finishes, and colors.

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**RENAISSANCE LIGHTING | WWW.RENAISSANCELIGHTING.COM**

**Product: Evo**

Providing LED-generated light for ambient and tasklighting applications, the recessed Evo luminaire uses proprietary optics to blend its light output, creating a highly uniform light. Over 16 million color combinations can be achieved, including a range of white color temperatures. The power supply and LED driver card are integrated into the fixture's aluminum housing, which calls for a ceiling cut-out of 7 1/2 inches. CIRCLE 176

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**XENON ARCHITECTURAL LIGHTING | WWW.XAL.COM**

**Product: Retro Mini**

With a single-lamp housing that measures 7 1/16 inches deep by 5 9/16 inches square, the Retro Mini is suitable for ceilings with a thickness from 3/8 inches to 9/16 inches. The gimbal, which requires no tools for installation because of its snap-in ball-catch system, is made of aluminum, can rotate fully through 360 degrees, and is tiltable up to 45 degrees. Lamping options include one 65W MR16 or two 50W MR16s. CIRCLE 177

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FOR INFORMATION ON BOTH PRESCOLITE PRODUCTS, CIRCLE 173

FOR INFORMATION ON BOTH KRAMER LIGHTING PRODUCTS, CIRCLE 175

FOR INFORMATION ON BOTH RENAISSANCE LIGHTING PRODUCTS, CIRCLE 176

FOR INFORMATION ON BOTH XENON ARCHITECTURAL LIGHTING PRODUCTS, CIRCLE 177
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Insight Lighting manufactures a myriad of high performance architectural lighting products for interior and exterior, indirect and direct, public lighting venues. An array of instruments including linear luminous lighting; Illusions, exterior facade; Masque, and decorative high performance indirect; Vas, are but a few of the products offered.

Attention to detail and integrity of design are benchmarks by which we produce products of exceptional value and longevity for airports, educational facilities, indoor pools, malls and professional sporting facilities. Innovation and a commitment to quality and service are tenets that have not been compromised in our 15 year tenure.

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PRODUCTS

LIGHTLIGHT BY BUSCHFELD | WWW.INTER-LUX.COM
Product: ART
This wall-mounted luminaire offers a wide-angle uniform illumination for artwork formatted up to 60 inches square. To accommodate museum lighting requirements, the sleek and minimal fixture can be adjusted for precise cutoff. For optimum results, a distance from the luminaire to the wall of approximately 21 3/4 inches should be maintained. CIRCLE 178

ALKCO | WWW.ALKC0.COM
Product: Little Inch Xtra
Little Inch Xtra is a versatile, undercabinet linear tasklighting option for a variety of commercial, institutional, and residential applications. Its sleek, smooth, rectangular housing is made of heavy-duty extruded aluminum and maintains a minimal profile. Smooth die-cast endcaps facilitate end-to-end connections, and reflected glare is virtually eliminated with a textured lens that softens emitted light. Four finishes are available—white polyester-resin powder-coated paint (standard), aluminum, black, and bronze. Lamp choices include LED, low-voltage halogen, low-voltage xenon, and fluorescent. CIRCLE 179

ESTILUZ | WWW.ESTILUZ.COM
Product: Tovier
The Tovier table lamp, finished in nickel, is a compact and attractive solution for tasklighting. The lamp is constructed of a single-formed frame and a square glass shade, giving the impression that the glass is floating. Measuring 13 5/8 inches high and 4 3/4 inches wide, the fixture uses a single 100W incandescent lamp. CIRCLE 180

LUXO | WWW.LUXOUS.COM
Product: Patientlite
Meeting three lighting conditions for patient rooms—general, practitioner, and night lighting—the Patientlite offers a modern design that virtually eliminates dusttraps. Two quick-connect systems are available, including terminal block or plug-in, for easy installation. The fixture has an extruded aluminum housing with a polycarbonate cover, and is offered with a powder-coat finish. CIRCLE 181

SPECIALTY LIGHTING | WWW.SPECIALTYLIGHTING.COM
Product: Apparel Light
Apparel Light is appropriate for closets, wardrobes, and retail displays that require unobstructed, economical linear illumination directly on or around garments. The fixture also serves as a closet rod capable of supporting up to 100 pounds of evenly distributed weight, and includes a remotely mounted electronic ballast to insure reliable, instant-on lighting, while maintaining an uncluttered presence. The fixture, available in 2- or 3-foot lengths, is offered in a choice of satin aluminum or satin gold finishes. Its clear prismatic acrylic lens snaps easily into place for quick and simple relamping. CIRCLE 182
**ELECTRI-CABLE ASSEMBLIES | WWW.ELECTRI-CABLE.COM**

**Product:** Dyna-Lite
Suitable for work-surface lighting, and available in lengths from 21 1/2 inches to 57 1/2 inches, the Dyna-Lite features a slim-profile and sleek aesthetic. Supplied with energy-efficient 4100K T8 lamps and a thermally protected Class-P ballast, even light dispersion is created with the use of a clear, prismatic lens and internal white reflector. CIRCLE 183

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**PLANLICHT | WWW.PLANLICHT.COM**

**Product:** Pureplus
Pureplus is a swivel spotlight that can be used alone or in groups for multiple interior design solutions. The luminaire system includes a variety of extruded anodized-aluminum profiles and a complete fixture, comprised of the casing, swivel joint, polished reflectors, base, and endcaps. CIRCLE 184

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**ZUMTOBEL | WWW.ZUMTOBEL.COM**

**Product:** Heliodisc
Offered as a ceiling fixture or as a free-standing luminaire, the Heliodisc's distinctive appearance comes from a flat head resembling a disc, and a curving bracket. The diameter of the head is just under 21 1/2 inches and can house four different light sources—compact fluorescent, T16 circular, LED, and metal halide. With the transparent luminaire housing, diffused light is radiated upward while direct light is thrown downward. CIRCLE 185

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**JESCO LIGHTING GROUP | WWW.JESCOLIGHTING.COM**

**Product:** Sleek Plus Adjustable
Providing user-adjustable display and accent lighting, the Sleek Plus Adjustable is designed for use in merchandise display cases requiring a low-profile solution and minimum heat emission. The compact, easy-to-install linkable housing allows the reflector to rotate 360 degrees. Finished with anodized silver or white enamel paint, and specified in lengths from 9 inches to 5 feet, up to 10 units may be joined end-to-end and are mountable horizontally or vertically. Each fixture is 3/4 inches wide by 1 1/2 inches deep. CIRCLE 186

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**STENG LIGHT | WWW.INTER-LUX.COM**

**Product:** Optimal-Kane 230
Constructed from aluminum, the Optimal pendant offers a sleek, minimal profile, only 3 1/2 inches in length. All of the luminaire's interchangeable reflectors provide uniform light distribution. Lamped with a high-voltage G9 halogen source, the fixture is equipped with an easy-to-use adjustor and a 79-inch coaxial cable. Custom lengths are available.

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**Product:** Rovo and Rovo-Head
The Rovo and Rovo-Head, made from cast aluminum, are rigid stem luminaires with heads that pivot horizontally approximately 300 degrees and vertically through 360 degrees. The Rovo stems are available in standard lengths of 2 inches, 4 inches, 8 inches, and 16 inches, with specialty lengths available up to 55 inches. The Rovo-Head offers the same design as the Rovo; however, its jack is located directly on the fixture's head.

FOR INFORMATION ON BOTH STENG LIGHT PRODUCTS, CIRCLE 187
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TRANSLITE SONOMA | WWW.TRANSLITESONOMA.COM
Product: Almande Shades
Offering various shapes, sizes, colors, and fabrics, the Almande shades merge the minimal lines of modern tracklighting with the warmth, tone, and texture of classical designs. The shades, cut from silk and sheer fabric materials, easily connect to a track or monopoint system, and can be easily removed for tool-free lamp replacement. CIRCLE 188

W2 ARCHITECTURAL LIGHTING | WWW.W2LIGHTING.COM
Product: Flexrail2
Flexrail2 is a two-circuit, line-voltage bendable rail system for use in commercial applications where a multitude of fixtures and a high volume of light are required. The system offers a contemporary aesthetic, accepts a wide variety of fixtures that can be placed anywhere on the rail, is offered in platinum and bronze finishes, and can be custom configured. CIRCLE 189

TECH LIGHTING | WWW.TECHLIGHTING.COM
Product: Two-Circuit T-trak
The Two-Circuit T-trak is a line-voltage system with an extremely small profile—under 1 inch. Each circuit has its own dedicated neutral for two separately switchable 20-amp circuits. Available in lengths of 48 inches or 96 inches, the system bends horizontally by hand to a radius as small as 36 inches, can be field cut, and is offered in satin nickel and white finishes. CIRCLE 190

LIGHTLIGHT BY BUSCHFELD | WWW.INTER-LUX.COM
Product: Star and Crown
The Star and Crown lighting systems feature decorative chandelier elements with a shiny chrome finish and exposed low-voltage halogen lamps. The Star system hangs vertically and can be used with ceiling-mounted track, whereas the Crown system is oriented horizontally and is not suitable for ceiling-mounted track. Both systems can be rotated 360 degrees.

Product: Triangle
One of two Triangle tracklighting systems, the suspended version (shown) is suitable for table and conference room illumination. It is approximately 19 3/4 inches wide, and each head takes one 20W, 35W, or 50W MR16 lamp. The system has an attractive aesthetic when applied in groups.

FOR INFORMATION ON BOTH LIGHTLIGHT BY BUSCHFELD PRODUCTS, CIRCLE 191

NORA LIGHTING | WWW.NORALIGHTING.COM
Product: Nepro Wall Wash
The Nepro Wall Wash fixture uses a 300W R7s halogen lamp for even illumination. Suitable for wallwashing or covering wide areas with ambient light, the line-voltage fixture has full rotation for ease of aiming and is available in a silver or bronze finish. CIRCLE 192
LUMELEX

The LumeLEX combines breakthroughs in thermal design, optics, and feedback to provide precise color-temperature control and dimming. The compact and sleek track design is ideal for interior spaces where quality white light is critical, such as high-end retail, museum, and gallery applications. The self-locking, adjustable units are available in five standard finishes—black, white, silver, graphite, and platinum.

GR16

Made from cast aluminum, the GR16 series spotlight is minimal and sleek—ideal for high-design solutions. Its low-profile-fitting extension houses the transformer, while the lamp ring opens easily to accept an entire range of accessories, such as color and UV-blocking filters. The unit accommodates all energy-efficient tungsten halogen MR16 lamps from 20W to 75W and is also available in standard finishes.

Nexera LX

The Nexera LX compact zoom profile luminaire uses a built-in CMY dichroic color-mixing system to produce a virtually unlimited color palette. For superior light output and beam uniformity, the fixture utilizes a high-output, compact tungsten 575W source to produce hard-edge illumination in an adjustable field, from 19 degrees to 26 degrees with a dual lens system. Ideal for applications where colors need to be adjusted quickly, another benefit is the luminaire's minimal noise, owing to its convection cooling.

A39T6H

Appropriate for commercial and retail wallwash applications, A39T6H units utilize a high-performance, long-lasting, 39W T6 metal halide lamp with a textured reflector. Available in 120V and 277V, the luminaire features a hinged front for easy relamping and tool-free accessory changes. Measuring 5 3/8 inches wide by 4 1/4 inches deep by 8 3/4 inches high, the fixture is offered in standard black, white, and silver finishes, with custom colors available upon request.

Source Four 14 degrees, 70 degrees, and 90 degrees

With the functionality, ruggedness, and optical power of the Source Four brand, the new 14-, 70-, and 90-degree field-angle spotlights offer added flexibility for lighting designers and technicians. The 14-degree spotlight works for 40- to 60-foot distances, while the 70- and 90-degree units are optimal for ultra-short-throw challenges, such as restricted trim heights, scenic washes, and pattern projections from close distances. The standard finish is black, but white, silver, and custom colors are also available.
Keep your expectations high. Prescolite's new Architektür T6 metal halide downlights are the smart choice for a variety of high ceiling and other architectural applications. Architektür T6 metal halide downlights can be ordered in spot, medium, or flood beam spreads eliminating any need for adjustment on the job. Prescolite's patented Virtual Source® Optics are standard, providing high efficiency and excellent glare control to the T6 ceramic metal halide bi-pin lamp with its long lamp life, great color, and high efficacy. To learn more about Prescolite's Architektür T6 downlights, visit www.prescolite.com or call 888-PRS-4TEC.
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BETA LIGHTING | WWW.BETA-LIGHTING.COM
Product: Aviator
The large Aviator, part of the Aviator series of architectural area luminaires, is available with Type III, Type IV, and Type V optics, which meet IESNA full-cutoff classifications. The fixture’s die-cast aluminum housing measures 25 inches wide by approximately 14 1/2 inches deep, and can accommodate 250W to 1000W metal halide, pulse-start metal halide, and high-pressure sodium lamps. Options include a side-arm mount for a square or round pole, or a round-tube center-direct post-top mount, with finishes in standard or platinum bronze, black, white, or silver. CIRCLE 197

BOYD LIGHTING | WWW.B0YDLIGHTING.COM
Product: Lantern
Suitable for use in areas that require a UL-listing for wet locations, such as patios, walkways, or colonnades, the Lantern series is offered with an incandescent source, or with compact fluorescent and a cold-weather ballast. Constructed from 1/4-inch-thick solid copper or aluminum with an etched-glass diffuser, the fixtures are available in antiqued copper, satin nickel, satin copper, and painted aluminum finishes, with three different fin styles (the Futura is shown). Diameters vary, but each measures 14 inches high. CIRCLE 198

ELEEK | WWW.ELEEKINC.COM
Product: Gatsby
Featuring Art Deco instincts, the Gatsby sconce measures 34 inches high by 27 inches wide with a diameter of 34 inches. The Gatsby is available in a standard tumbled aluminum finish, clear or colored powder coats, and optional patinas. The fixture is made of 100 percent-recycled cast aluminum and ivory polycarbonate. It takes a fluorescent, and operates on a voltage of 120V to 277V. CIRCLE 200

HOLOPHANE | WWW.HOLOPHANE.COM
Product: GranVille Mini
The GranVille Mini is offered in two distinct housings. The Leaf housing (shown) features a raised oak leaf pattern, while the Simple style is less ornate. Multiple mounting and pole options are available for this fixture, which is offered with incandescent or compact fluorescent lamps burning between 120V and 347V. The decorative band and finial are optional, and both asymmetric and symmetric optics are available. The Leaf housing is approximately 25 inches tall, while Simple measures approximately 22 inches tall. Both styles have an overall width of 9 3/4 inches. CIRCLE 201

MEYDA TIFFANY | WWW.MEYDA.COM
Product: Handkerchief Art Glass
This new line of landscape luminaires features colorful shapes and styles with 9-inch-diameter shades. Handcrafted in the United States, each pendant has an overall height of 25 inches, but can be customized. Lamping options include 20W bi-pin low-wattage halogen and line-voltage incandescent. Eight color options are available, while metal finish options include vintage copper, verdigris, and craftsman brown. CIRCLE 202

VALMONT INDUSTRIES | WWW.VALMONT.COM
Product: Xtreme
The Xtreme series of new bases for traffic and light poles is resistant to cracking, salt spray, chemical decay, rotting, and pitting. The series is made of a high-strength polyurethane and consists of two standard models, the Washington and the Huntington. Both feature a clam-shell design and are scalable to match any size pedestrian street and traffic poles. The series will also be available as a retrofit to existing poles. CIRCLE 199
**ECLIPSE LIGHTING | WWW.ECLIPSELIGHTINGINC.COM**

**Product:** Aquarius

Featuring a square diffuser and perforated insert, the Aquarius series of decorative wall sconces is appropriate for illuminating both outdoor and indoor locations. The sconce is available in six sizes, from 8 1/4 inches wide by 11 1/8 inches high by 4 inches deep, to 14 inches wide by 41 inches high by 8 1/2 inches deep. Lamping options include incandescent, fluorescent, high-pressure sodium, and metal halide. Two corrosion- and weather-resistant finish options are offered: pre-treated oven-baked polyester powder or brushed aluminum.

**KALCO LIGHTING | WWW.KALCO.COM**

**Product:** Louver

Offering a contemporary twist on traditional outdoor fixtures, the Louver collection features cylindrical glass encased in thin rectangular tubing, and includes a wall bracket (shown), a hanging lantern, and a post-mount fixture. The luminaires take one 100W medium-base lamp and housing dimensions measure 12 1/2 inches wide by 18 3/4 inches high by 15 1/4 inches long. The fixture is available in an iron finish. CIRCLE 205

**ERCO | WWW.ERC0.COM**

**Product:** Grasshopper

With its multi-layer powder-coated aluminum housing, lockable hinge joint, and versatile mounting possibilities, the Grasshopper low-power-rating outdoor spotlights provide flexible accent lighting solutions. Various reflectors and lamp options are available, including metal halide and high-performance LEDs. The mounting plate is rotatable through 360 degrees and the fixture measures 9 1/4 inches tall by 9 11/16 inches wide. The Grasshopper is suitable for wet locations, and is dust-proof and water-jet-proof. CIRCLE 206

**FORMS + SURFACES | WWW.F0RMS-SURFACES.COM**

**Product:** Knight

Constructed of rust-proof aluminum, the Knight bollard and pedestrian lighting fixtures feature a geometric design with a head casting that positions the compact fluorescent or HID light source above the four quadrants for a symmetrical lighting pattern. One or more of the four frosted glass lenses may be replaced with opaque shields to create asymmetrical lighting. The standard height of the 8-inch-square bollard is 43 inches; however, custom heights down to 33 inches are available. At a standard height of 128 inches, the pedestrian lighting fixture measures 6 inches square with rounded corners; custom heights are available. Three durable powder-coat finishes include black, slate, and silver. CIRCLE 207
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**SCHREDER | WWW.SCHREDER.COM**

Product: Francesca

Francesca features an arched aluminum profile and an embellished cast-aluminum mast base. Three versions are available: one with a mast of 14 3/4 feet, another with a mast of just under 19 3/4 feet, and a wall bracket. The luminaire is equipped with a micro-reflector that offers the same photometric performance as standard-size reflectors, and has been specifically developed for metal halide lamps with a ceramic arc tube.

**FOR INFORMATION ON BOTH SCHREDER PRODUCTS, CIRCLE 208**

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**IP44 | WWW.INTER-LUX.COM**

Product: Thylia

Thylia urban street lighting has a range of configurations, finishes, and heights (up to 26 feet). One, two, and four poles can be mounted on a base. Four types of bases—two in cast iron and two in steel—and a steel wall bracket are available. The luminaire is equipped with a micro-reflector, allowing for a small head (5 inches high). The fixture has been specifically developed for metal halide lamps with a ceramic arc tube.

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**VISA LIGHTING | WWW.VISALIGHTING.COM**

Product: Slim

With a diameter measuring only 2 3/4 inches, Slim is constructed of stainless steel and clear matte acrylic glass, providing a contemporary outdoor lighting option. Lamping involves one 13W T2 fluorescent lamp with optional color filters available in red, blue, and anthracite. The height of the fixture is just over 4 feet; special heights are available on request. CIRCLE 209

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**Sternberg Offers a Variety of Styles and Sizes to Meet any Specification**

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The Prairie Family design of luminaires is in the style and tradition of the Frank Lloyd Wright, Arts/Crafts and Mission period. Whether it is the tree style motif or linear look with stylized grilles, these distinct fixtures are available in four different sizes to complete any streetscape or landscape. All of the models are available with energy efficient lamping and larger sizes with the optional NIGHTSKY™ STAR-SHIELD and OPTI-SHIELD, roof or louver optical systems. Refractors, frosted chimneys and house side shields may be added.

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**QUALITY LIGHTING**  
[www.qualitylighting.com](http://www.qualitylighting.com)  
**Product:** ZLV-24  
This post-top lighting fixture for area and site lighting is suitable for a broad range of applications where glare-free pedestrian-level illumination is desired. The fixture consists of a 24-inch-diameter vandal-resistant cast-aluminum housing and a broad saucer-shaped canopy made of die-cast aluminum. Lamping options include high-pressure sodium, metal halide, and compact fluorescent, and post heights are available from 8 feet to 14 feet. CIRCLE 211

**DREAMSCAPE LIGHTING**  
[www.dreamscapelighting.com](http://www.dreamscapelighting.com)  
**Product:** Nalu  
Providing general accent illumination to highlight landscape vegetation or hard scape, the Nalu sculptural luminaire utilizes a halogen or LED light source. Constructed of powder-coated steel or solid brass, standard finishes include black iron (for steel) or sunset bronze (for solid brass), and custom finishes are available. The fixture measures 30 inches high by 3 1/2 inches wide and features a 20-inch extension. CIRCLE 212

**LITHONIA LIGHTING**  
[www.lithonia.com](http://www.lithonia.com)  
**Product:** Aeris  
This family of outdoor luminaires comes in several styles: flood, wall-mounted, site, and area. Cutoff and full-cutoff lamping options include metal halide, high-pressure sodium, fluorescent, and induction. The fixture is available in standard and textured finish selections, and is UL listed for wet location in lens-down orientation. Accessories such as wire and vandal guards are available. CIRCLE 119

**ENGINEERED LIGHTING PRODUCTS**  
[www.elplighting.com](http://www.elplighting.com)  
**Product:** Aileron A15  
Providing an asymmetric light distribution for large areas, Aileron A15 extruded aluminum floodlights tilt to allow for precise aiming. Producing unscalloped illumination without glare, the high-purity aluminum reflector also offers lamp shielding. The surface-mounted, 7 1/4-inch profile extends from the wall 25 5/8 inches and, depending on lamp option, varies in width from 14 inches to 28 inches. It is available in one- or two-lamp configurations with metal halide, high-pressure sodium, or fluorescent options. CIRCLE 213

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BODINE | WWW.BODINE.COM
Product: REDiTEST LP600STU
This low-profile, fluorescent emergency ballast features universal input and high lumen output, and operates for up to 90 minutes with a number of lamp types and wattages including: 14W to 54W standard T5 or T5HOs; 17W to 55W standard 8 or T8HOs; or 36W to 55W 4-pin compact fluorescents. The ballast automatically performs monthly and annual code-required testing, measures 22 1/4 inches long by 1 inch wide by 1 inch high, and is suitable for damp locations. CIRCLE 214

HIGHLITES | WWW.HIGHLITESLIGHTING.COM
Product: Euro ES
The Euro ES series provides unobtrusive emergency lighting in a contemporary design for commercial, institutional, and industrial environments. By recessing the fixture into accessible ceilings or walls, only the trim plate and two yoke-mounted, multi-directional halogen lamp heads (rotatable through 180 degrees) are visible. The housing is constructed from 22-gauge steel and is finished with corrosion-resistant white powder-coat paint. CIRCLE 215

SURE-LITES | WWW.SURE-LITES-LIGHTING.COM
Product: Architectural Emergency Light
Designed as a sconce, this emergency luminaire blends with decorative interiors to offer an attractive alternative to standard emergency lighting. The housing is constructed of die-cast aluminum with an integral refractive polycarbonate lens, which supports three 6V, 6W high-output Xenon lamps. Measuring 10 7/8 inches wide by 7 inches tall by 3 7/8 inches deep, the fixture includes a maintenance-free, sealed nickel-cadmium battery that fully recharges in 24 hours. CIRCLE 216

NIGHTSEARCHER | WWW.NIGHTSEARCHER.COM
Product: Maxi 2000
This rechargeable portable floodlight, for use indoors and out, provides emergency lighting for up to 10 hours from a single charge. Powered by a 42W compact fluorescent, the newly designed reflector produces a brilliant white light that is the approximate equivalent of a 300W lamp. The fixture has no trailing cables and no halogen heat risk. A rapid response unit is also available.

Product: Starlite 12
This triple-tube fluorescent floodlight switches between high- and low-power modes, while offering cool-running, silent operation. Using a 12V power pack, it illuminates for 3 hours on full power and 10 hours on low power. The aluminum tripod can be extended in height from 5 feet to 10 1/2 feet, providing maximum flexibility for all types of applications.

FOR INFORMATION ON BOTH NIGHTSEARCHER PRODUCTS, CIRCLE 217

STACO ENERGY PRODUCTS | WWW.STACOENERGY.COM
Product: Trestar 924
The Trestar 924 is a three-phase uninterruptible power supply for central emergency lighting systems that provides a 90-minute backup during blackouts. The valve-regulated, lead-acid battery has a 10-year design-life at 77 degrees, and fully recharges in less than 72 hours. Accessed from the front and top, dimensions vary based on capacity, which ranges from 10 to 75 kW. CIRCLE 219
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BODINE | WWW.BODINE.COM
Product: CheckMate ET1
Remote-control testing of existing exit signs and emergency lighting wall packs is available with the use of CheckMate ET1. From up to 32 feet away, users can test both 30-second and 90-minute options to satisfy building safety codes. The unit attaches directly to existing signs and wall packs, and measures approximately 4 inches long by 1 1/4 inches wide by 1 inch high. CIRCLE 219

COOPER WIRING DEVICES | WWW.COOPERWIRINGDEVICES.COM
Product: Aspire RF
The Aspire RF line of wireless control products incorporates Z-Wave technology that uses sensing and random back-off to reduce interference. The system includes Aspire's signature curve motif and contrasting matte and low-gloss finishes, which are offered in three two-toned color combinations: desert sand, white satin, and silver granite. In addition, switches, receptacles, dimmers, controllers, accessories, and screwless wallplates are available. CIRCLE 220

HUBBELL | WWW.HUBBELL-AUTOMATION.COM
Product: LightHawk
LightHawk, a wall-switch occupancy sensor product line, is available in a variety of models—passive infrared, ultrasonic, and mult-technology—for occupancy detection and false trip immunity. The devices feature selectable operating modes, including automatic on/off or manual on/automatic off, and a built-in photosensor for automatic daylight harvesting. All sensor models come in both single- and dual-circuit versions with no minimum load requirements and can be used to replace existing wall switches. CIRCLE 221

CRESTRON | WWW.CRESTRON.COM
Product: infiNET
Part of a complete line of wireless lighting controls that includes single- and four-button switches and wireless gateways, the infiNET dimmer uses technology that eliminates the need for physical control wiring. Its dynamic frequency allocation ensures a fast, stable, and reliable system, and real-time analysis can be conducted remotely from any computer. CIRCLE 222

DYNALITE | WWW.DYNALITEEUROPE.COM
Product: Revolution
Incorporating a clip-on cover-fastening system for design flexibility, the Revolution series of control panels incorporates a button-depth adjustment facility to accommodate flat surfaces up to 1/4 inch deep. The panels offer smooth-action buttons with LED indicators and are available in a variety of configurations, from single column—allowing for one to eight buttons—through double- or triple-column designs with up to 24 buttons. A wide range of panel materials are offered, including wood, stone, metal, plastic, vinyl, and glass. CIRCLE 223

COOPER LIGHTING | WWW.COOPERLIGHTING.COM
Product: LumaWatt Hi-Lo
Designed for commercial and industrial applications, the LumaWatt Hi-Lo is a wireless mesh-networked motion sensor and photosensor that operates incandescent, compact fluorescent, linear fluorescent, and HID light sources. It can switch electronic- or magnetic-ballasted luminaires for high-low functionality, dim electronic-ballasted luminaires using 0V to 10V dimming, and switch any electrical load up to 30 amps. Capable of detecting motion up to 40 feet away, the sensor features a free-rotating universally adjustable wall- or ceiling-mounting mechanism. CIRCLE 224
**LIGHTOLIER CONTROLS | WWW.LOCONTROLS.COM**

**Product: LYTeMode**

Measuring under 5 inches long and approximately 3/4 inches thick, and featuring a brilliant 3 1/2-inch color display, the LYTeMode wireless unit provides real-time individual channel control of 12 scenes and adjustable fade times, graphic representation of channel intensities, and lighting control status. Utilizing wireless technology, reliable and secure connections are obtained over a range of 30 feet. Power is supplied through a lithium-ion removable battery, and a rechargeable AC adapter comes standard.

Product: LyteScene

The LyteScene touch screen captures and simulates the control panel functions of any LYTeMode network master station or remote in real time through a contemporary colorful, graphic interface. System adjustments can be easily made with the system’s software on the approximately 6 1/2-inch screen, which features a high-performance backlight, optional custom background logos, standard wiring for connection to the network, low power consumption, fanless operation, and an IP65-rated front bezel.

**FOR INFORMATION ON BOTH LIGHTOLIER CONTROLS PRODUCTS, CIRCLE 225**

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**LUTRON | WWW.LUTRON.COM**

**Product: Stainless Steel Wallplates**

To coordinate with stainless-steel home appliances, Lutron has added stainless-steel wallplates to its product range. Complementary to black dimmers, switches, and accessories, the wallplates feature rounded edges and have no visible screws for a clean aesthetic. One-, two-, three-, four-, five-, and six-opening wallplates are available, and each is comprised of a stainless-steel frame over a black base.

Product: Sivoia QED Roman Shades

Sivoia QED Designer Roman Shades offer Lutron’s Quiet Electronic Drive technology to provide quiet and precise movement and control. A variety of classic and contemporary fabrics are available in multiple colors and textures, including natural woven grasses, reeds, and bamboos, as well as designer fabrics. Shades range between 24 inches and 138 inches in width, and 36 inches and 156 inches in length, and can be integrated into the company’s lighting control systems.

**FOR INFORMATION ON BOTH LUTRON PRODUCTS, CIRCLE 227**

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**RSL | WWW.RSSLIGHTING.COM**

**Product: Regulator**

With the ability to regulate the voltage from transformer to fixture to 11.6V, the tiny Regulator is safely contained within its own housing for direct burial or installation in a mounting stake. Measuring only 1 inch by 1 inch by 1 1/2 inches, the device is used for landscape lighting projects and features a guide chart that simplifies layout. CIRCLE 226

**PowerTrip**

A current-limiting device for line-voltage tracklighting, the PowerTrip enables users to tailor installation to a specific required wattage. Designed for use with Lytespan Radius and Basic and Advent track systems, it is easy to install and replaces both standard Live-End and In-Line track power feeds. The tamperproof device is available in black or white. CIRCLE 228
To assist with energy savings in commercial and public buildings, the Energy Control System is a fully scalable, integrated hardware and software system that allows light fixtures, occupancy sensors and photosensors, and wall dimmers to be individually addressed via a rack- or wall-mounted processor. Sensor power is supplied over the network, eliminating the need for separate power supplies and wiring. CIRCLE 229

Used with the Lighting Integrator control panel, the Automation Appliance is a web-based interface that connects users to the network via an Internet, intranet, or LAN connection. Through a standard web browser, multiple users can access all lighting control functions and scheduling capabilities, ideal for applications where remote access is desired or access from multiple locations is necessary. CIRCLE 230

For more information, call Sentry Electric, LLC at 516.379.4660, or visit us at www.sentrylighting.com

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**OSRAM SYLVANIA**

**Product:** aluPAR

With an aluminum reflector—rather than the glass reflectors used in previous models—the PAR56 lamps in the aluPAR family are lighter and brighter than conventional stage and show PAR halogen lamps, and offer enhanced lighting performance. Different voltages and beam angles are also available.

**Product:** Dura-One

Serving as a replacement for medium-base incandescent and compact fluorescent lamps, Dura-One uses advanced magnetic induction technology, eliminating the need for coils that eventually wear out. With a rated life of 15,000 hours, high light output is delivered over a wide temperature range—90 percent of its rated light output is from 25 to 150 degrees Fahrenheit. Additional benefits include flicker-free, instant-on starting.

**Product:** Pentron C T5HO

Using amalgam technology, the Pentron C T5HO lamp can deliver constant light output over a wide temperature range, from 40 to 165 degrees Fahrenheit. Suitable for use in a variety of applications, including warehouse and industrial lighting, indirect office lighting, indoor and outdoor signage, parking structure, and gas station and convenience store canopies, it is available in 2-, 3-, 4-, and 5-foot lengths.

**OPTO TECHNOLOGY**

**Product:** Endura Bright MR-16

The Endura Bright MR16 lamp is a replacement for existing halogen lamps. Appropriate for applications such as trade shows, museums, display cases, transportation, and industrial lighting, it contains a high-output LED that offers up to 120 lumens of light, and provides over 2,200 candela of light output with a beam spread of 10 degrees. The lamp is available in white, warm white, red, amber, green, cyan, blue, and royal blue. CIRCLE 232

**Product:** Quicktronic Powersense T8

The Quicktronic Powersense T8 dimming ballast works on low-voltage or power-line dimming controls. By combining control technologies, it can be installed on any line voltage—from 120V to 277V—and with any standard fluorescent dimming control. It is compatible with Octron lamps from 17W to 32W.

**LIGHTWAVES**

**Product:** LED 3W MR16

Intended as a replacement for the standard dichroic MR16, the LED 3W MR16 uses 90 percent less energy than an incandescent MR16 and offers near-zero heat output and an eight-year lifespan. Producing 80 lumens, the lamp is offered in white, warm white, red, green, blue, and amber. CIRCLE 220

**Product:** MR16 Based LED Lamps

These 1W and 3W MR16 solid-state lamps feature standard bi-pin bases and integrated constant-current drivers that can accept variable inputs from 8V to 16V in either an alternating current or a direct current. Built around Cree's XLamp LED technology, each lamp has an operating life of over 25,000 hours and is housed in a standard white housing made from UL-rated materials. Additionally, lamps are available in two output power configurations, 45 lumens and 80 lumens, in seven colors: white, amber, blue, cyan, green, orange, and red. CIRCLE 234
LAMPS/BALLASTS

LITETRONICS | WWW.LITETRONICS.COM

Product: SPLP PAR38
Offering the versatility of a standard incandescent PAR lamp, but lasting four times longer, the SPLP PAR38 compact fluorescent lamp is effective for both indoor and outdoor applications, including track lighting and recessed can lighting. Available in 2700K and 4000K color temperatures, the spiral reflector allows for higher lumens per watt than ordinary fluorescent lamps and has an 8,000-hour life. The minimum length of the lamp is 5 7/8 inches.

Product: Micro-Brite Candelabra
The Micro-Brite Candelabra is a 3W or 4W dimmable cold cathode fluorescent lamp that can operate indoor or out in extreme temperatures. It has a 25,000-hour life and offers 80 percent energy savings over incandescent lighting. With a minimum length of 4 1/4 inches, the lamp is ideal for chandeliers, wall sconces, and floor and table fixtures.

Product: Micro-Brite BR30
The Micro-Brite BR30 is an 8W compact fluorescent that can replace incandescent lamps. Designed with the hospitality industry in mind, it is suitable for indoor or outdoor use in table lamps, recessed cans, general area lighting, and signage. Cold cathode technology provides full dimming, while delivering brighter, higher color temperatures and reduced energy consumption. The lamp has a minimum length of 5 3/8 inches and an 18,000-hour life.

FOR INFORMATION ON THESE LITETRONICS PRODUCTS, CIRCLE 235

LEDTRONICS | WWW.LEDTRONICS.COM

Product: White MR16 TrackLED
Offering solutions for maintenance-intensive and low-voltage applications, this high-powered MR16 LED drop-in replacement lamp has a 2-pin base, draws just 2.5 watts, features 42 LEDs, and is available in cool and warm white color temperatures. The lamp is offered in four beam angles: narrow (15 to 20 degrees), standard (25 to 30 degrees), medium (40 to 50 degrees), and wide (100 to 120 degrees). CIRCLE 236

VENTURE LIGHTING | WWW.VENTURELIGHTING.COM

Product: E-Lamp
The E-Lamp family of products are available in 320W, 350W, 400W, and 450W. Each has an average rated life of more than 20,000 hours, features a color temperature of 4000K, provides a color-rendering index of 65, and offers uniform light output. CIRCLE 237

PHILIPS | WWW.PHILIPS.COM

Product: T8 Extra Long Life Alto
Providing up to 40,000 hours of continuous light, the T8 Extra Long Life Alto lamp is suitable for both new construction and retrofit applications. The lamp will operate on all existing T8 ballasts. CIRCLE 238
Soft Glow High Performance Wall Wash
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Intense Lighting introduces the newest addition to the high performance architectural Arista™ series, the patent pending “Soft Glow Wallwash” Alzak® reflector. This revolutionary new recessed wallwash utilizes an off-set compact fluorescent lamp configuration providing superior, even vertical illumination. To virtually eliminate all visual glare, Intense has developed a “soft glow” Alzak® reflector finish were performance and visual comfort is maximized.

In addition, the wallwash downlight appears as an open reflector, inconspicuously doing the job. In a sense, the “Soft Glow Wallwash” looks like a downlight, but acts like a high-performing lighting instrument.

For more information on the “Soft Glow Wallwash” or the high performance architectural Arista series, please call (800) 961-5321 or visit www.intenselighting.com/al.
**PRODUCTS**

**LAMPS/BALLASTS**

**ADVANCE | WWW.ADVANCETRANSFORMER.COM**

Product: Optanium 2.0
The Optanium 2.0 family of low-profile, lightweight, and high-efficiency electronic ballasts is compatible with T8 lamps, including standard 40W, 32W, 25W, and 17W, as well as 4-foot 30W, 28W, and 25W energy-saving models. Ballasts are offered in two versions—a standard light output design and a low-watt design—from 108V to 305V. Available with a complete range of both instant-start and programmed-start options, they are physically interchangeable with standard electromagnetic and electronic ballasts.

**UNIVERSAL LIGHTING TECHNOLOGIES | WWW.UNIVERSALBALLAST.COM**

Product: E-tensity
Offering improvements to traditional magnetic HID lighting, the E-tensity electronic HID ballast has a grade-A sound rating with a fixture efficiency greater than 90 percent. Suitable for lamps ranging from 20W to 400W, it provides instant-on starting and produces high light levels. The ballast also has dimming options for energy management control and an end-of-life shutdown circuit.

Product: Basic-12 B260120M-A
Designed to replace traditional magnetic T12 ballasts, the B260120M-A ballast is smaller and lighter. The ballast offers an instant start and measures 9 1/2 inches long by approximately 1 3/4 inches wide by just over 1 inch high. It features parallel lamp operation, so if one lamp fails, the others remain lit.

**DURALED | WWW.DURALED.COM**

Product: DMC-MR16-XX-6W
Containing a single high-power LED, Duraled's MR16 replacement lamp has the equivalent output of a 50W MR16 lamp. Offering a long operating life—40,000-hour average—the lamp produces no UV or thermal radiation. It measures approximately 1 1/2 inches in diameter and available colors include cool white, warm white, red, magenta, green, light blue, and blue.

**AURORA LIGHTING | WWW.AURORABALLAST.COM**

Product: WattControl
The WattControl HID electronic ballast for 400W HID fixtures is compact and lightweight, functioning at temperatures 50 to 80 percent cooler than traditional magnetic ballasts. The ballast operates at an input voltage from 208V to 277V and has a continuous dimming capability.
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**ILIGHT TECHNOLOGIES | WWW.ILIGHT.TECH.COM**

**Product:** Plexineon RGB

The Plexineon RGB series is a programmable color-changing linear LED lighting system that can be used in both exterior or interior accent lighting and cove lighting applications. Standard straight lengths are available in measurements of 2, 4, 6, and 8 feet. The series can interface with any standard DMX controller, and is addressable in 12-inch increments.

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**FOR INFORMATION ON BOTH ILIGHT TECHNOLOGIES PRODUCTS, CIRCLE 243**

**LEDTRONICS | WWW.LEDTRONICS.COM**

**Product:** Plexineon White 2X

Using higher-intensity blue LEDs than the previous White series, the 2X line utilizes a patented light conversion system in the diffuser to provide white light that is twice as bright. With standard available lengths, as well as custom lengths to the nearest inch, the series is intended for use in exterior or interior accent lighting, cove lighting, and stage lighting. For signage applications, the product can be factory-bent.

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**SUPER VISION | WWW.SVISION.COM**

**Product:** SaVi SHO

With a sealed housing constructed of cast-aluminium alloy, the SaVi SHO is a high-output, full-spectrum RGB LED floodlight offering 16 million colors, fully controllable with DMX. Effects include static colors, cross-fading, chasing, and single-color rotation through optic angles of 15, 30, and 45 degrees, and fixture spacing of 20 feet. The luminaire can be mounted on the wall, ceiling, or pad-footings with an easy-to-install back-mounting plate. CIRCLE 245

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**MULE LIGHTING | WWW.MULELIGHTING.COM**

**Product:** LED-ColorFlex

LED-ColorFlex is a system of durable UV-protected tubes lined with LEDs that contain dyes to enhance color brightness in red, blue, green, yellow, and orange. Flexible enough to bend up to 180 degrees, the system offers a user-friendly alternative to delicate glass-based neon lamps. Interior and exterior applications include architectural borders on buildings, signage, casinos, step and path lighting, and display cases. CIRCLE 246

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**COTCO | WWW.COTCO.COM**

**Product:** TSB True Blue

Emitting the 465 nanometer blue wavelength required for certain medical applications employing LED technology, such as light therapy, the total light emission of the TSB True Blue LED is maximized using indium gallium nitride (InGaN) and silicon carbide (SiC) substrates in a geometrically enhanced vertical chip structure. Available in 3 and 5 millimeter packages with 15 and 25 percent viewing angles, the device has a luminous intensity of up to 8200 millicandela. CIRCLE 247
**LAMINA CERAMICS | WWW.LAMINACERAMICS.COM**

Product: **BL-4000 Warm White**

Marketed as an alternative to halogen and incandescent lamps with its warm 3000K glow, the BL-4000 Warm White LED delivers 95 lumens (almost as much as a 10W halogen bulb), while consuming 5.3 watts of electricity. The BL-4000 is smaller than a U.S. nickel. CIRCLE 248

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**CITIZEN ELECTRONICS | WWW.CECOL.COM**

Product: **CL-652 Series**

This series of white LEDs produces light via eight LED junctions tightly packed around a common reflector and high-efficiency lens within the device. Each junction can be individually powered so the array can run in a series or in parallel configurations. Offering a luminous flux of 89 lumens, the LED is ideal for general illumination, appliances, backlighting, projection, and accent lighting. Measuring 14 by 14 by 5 1/2 millimeters, the white LED has a 5000K color temperature. CIRCLE 249

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**OSRAM OPTO SEMICONDUCTORS | WWW.OSRAM-OS.COM**

Product: **Ostar**

Offering 30 percent more luminous efficacy, according to the company, than previous product generations, the Ostar is a compact, high-power LED that has a four or six series-connected chip design. Suitable for a wide variety of general lighting applications, including task lighting and specialty flashlights, this LED can provide 420 lumens with its six-chip design, and 280 lumens with its four-chip design. The LED is encased in a hexagonal shape for space-saving, high-intensity packages. CIRCLE 250

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**LUMILEDS | WWW.LUMILEDSCOM**

Product: **PWT1**

Designed for flashlights and other portable lighting applications, the PWT1 features an emitter that generates 26 lumens at 350mA from a package size of only 2.0 by 1.6 by 0.7 millimeters. Lumiled’s patented conformal coating process produces uniform white light with a 2,000-hour life expectancy.

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**OPTEK TECHNOLOGY | WWW.OPTEKINC.COM**

Product: **Lednium**

Featuring a 10W package that offers a full 120-degree viewing angle for its array of amber, blue, green, red, or white LEDs, the Lednium series can achieve an output of up to 330 lumens with nine 1W LEDs mounted in anodized aluminum. Measuring approximately 1 1/4 inches square, the package has a board-mounted profile of less than 1/2 inch. Additionally, the maximum allowable junction temperature is 130 degrees Celsius, and the operating temperature range for the device is -50 degrees Celsius to 80 degrees Celsius. CIRCLE 005

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**ROYAL PHILIPS ELECTRONICS AND ADVANCE TRANSFORMER | WWW.ADVANCEDTRANSFORMER.COM**

Product: **LED Modules**

These LED modules are versatile, with applications including cove-lighting, wallwashing, and outdoor architectural lighting. Their self-contained system—operating on a Xitanium 40W driver from Advance—enables innovative LED-based lighting configurations through a flexible connection system, and features full optical, thermal, and mechanical optimization. The modules are available in warm white, cool white, and a variety of colors. CIRCLE 006
**SIRIUS LIGHTING | WWW.SIRIUSLIGHTING.COM**

Product: Sirius MSP555716

This high-output LED fixture uses Lumileds' Luxeon product and has a diameter of only 1 inch. With a long LED life of 50,000 hours (depending on the surrounding temperatures), this fixture produces no UV or IR radiation. The luminaire is offered in several color temperatures and is available in polished chrome, polished gold, matte gold, and platinum finishes. CIRCLE 009

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**INFINILUX | WWW.INFINILUX.COM**

Product: ISL

Designed to replace fluorescent and halogen lighting systems in undercabinet, accent, task, and decorative lighting applications, the ISL striplighting family of products is made up of low-voltage, self-adhesive, and self-contained luminaires that provide 70 lumens per linear foot of cool (6500K) or warm (3500K) white light output. Additionally, each 21-inch LED strip can be easily trimmed along 3-inch increments to allow for do-it-yourself installations and custom fittings. CIRCLE 010

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**CREE | WWW.CREE.COM**

Product: Xlamp 7090

The Xlamp 7090 features surface-mount technology, a reflow solderable design for ease of use, and an integrated lens with a small footprint of 7 by 9 millimeters. It is available in a variety of colors including white, royal blue, blue, cyan, green, amber, red-orange, and red. CIRCLE 011

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**TRAXON | WWW.TRAXON-USA.COM**

Product: LED Wallwasher

Rated for outdoor use and mountable on walls and ceilings, this LED wallwasher swathes surfaces in an array of colors. To achieve optimal light output, the base of the fixture allows for a full 180-degree-angled beam and a full 360-degree horizontal rotation. DMX control capabilities can create specific sequences and arrangements. CIRCLE 013

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**ALBEO TECHNOLOGIES | WWW.ALBEOTECH.COM**

Product: Repleo

Designed as an alternative to fluorescent lighting in environments that require minimum maintenance and maximum durability, the Repleo white-LED luminaire features a trio of adjustable lighting elements that do not use glass or filaments. The fixture is available in lengths of 3 feet and 4 feet, with color temperatures of 4000K, 5000K, and 5500K. CIRCLE 014

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**II LIGHTING | WWW.IOLIGHTING.COM**

Product: Raye

Used for interior cove and perimeter wall-slot applications, Raye's optical assembly is designed to illuminate cove surfaces uniformly, while offering a precise asymmetric beam projection. Ideal for applications where spatial conditions are limited but functional light is required, the fixture can deliver light at low angles in shallow conditions. Additionally, individual units may be placed end to end without socket shadows. CIRCLE 015
RENAISSANCE LIGHTING | WWW.RENAISSANCELIGHTING.COM

Product: Evo
Providing high-quality LED light for ambient and tasklighting applications, the recessed Evo luminaire uses proprietary optics to blend its light output, creating a uniform illumination. Over 16 million color combinations can be achieved, including a range of white color temperatures. The power supply and LED driver card are integrated into the fixture's aluminum housing, which calls for a ceiling cut-out of 7 1/2 inches. CIRCLE 017

BARTCO LIGHTING | WWW.BARTCOLIGHTING.COM

Product: XLS290
Based on 11 1/2-inch modules, this fixture is appropriate for display-case applications. Incorporating six or eight high-output LEDs, each module integrates a dedicated 9W driver that produces 35 lumens per watt, while minimizing heat generation and prolonging lamp life. Quick-connects allow up to 12 modules to be joined together and mounted inside a 1 3/8-inch diameter aluminum extrusion. A clear acrylic lens redirects light from the LEDs to maximize distribution. Fixture housings are offered in a variety of anodized and powder-coat finishes. CIRCLE 018

OSRAM SYLVANIA | WWW.SYLVANIA.COM

Product: DOT-it
With its adhesive backing, the round, pocket-sized DOT-it can be stuck and re-stuck almost anywhere. Three AAA batteries (included) provide about 100 hours of light from three white LEDs for portable lighting available in six metallic colors: silver, purple, red, orange, lime green, and black. Simply push the center to turn the device on and off. CIRCLE 231

COLOR KINETICS | WWW.COLORKINETICS.COM

Product: iW Cove Powercore
Designed for interior alcoves, this high-intensity linear system offers a rotatable housing, providing a compact and versatile solution for wide-ranging architectural and accent applications. Incorporating Powercore technology for simplified installation, the 12-inch units may be used in a continuous run, while navigating bends and curves with end-to-end connectors. The housing is available in die-cast aluminum, and three beam angles are offered. CIRCLE 019

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FIBERSTARS | WWW.FIBERSTARS.COM

Product: EFO 3+3 PLUS
Designed to connect to six downlights, the EFO 3+3 Plus illuminator increases energy efficiency with a patented Cloverleaf optics system. The device replaces six 75W MR16 fixtures and delivers 50 lumens per watt. EFO systems are available with warm white (3500K) or cool white (4500K) HID metal halide lamps. The illuminator measures 15 by 14 by 6 1/2 inches.

OPTO TECHNOLOGY | WWW.OPTOTECH.COM

Product: Endura Light
This LED-based fiber optic illuminator incorporates solid-state technology to provide a mechanically flexible alternative to neon, fluorescent, halogen, and HID light sources, by transmitting light through solid core or stranded fiber optic cable. Two series are available: the Endura Light 100, which provides uniform light for runs up to 20 feet; and the Endura 700, for runs up to 80 feet. Both models can be used in wet or dry locations, are available in eight color schemes, and have a 50,000-hour life expectancy. CIRCLE 021

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**PPG INDUSTRIES | WWW.PPGIDEASCAPES.COM**

Product: Vistacool Azuria

A color-enriched architectural glass that imparts a luminous aqua-blue appearance, Vistacool Azuria is subtly reflective, while transmitting high levels of daylight. The aqua-blue sheen is a direct result of the Vistacool coating that amplifies and enriches the tint of the glass substrate underneath. The soft reflectivity of the glass makes it optimal for harmonizing vision glass with non-vision spandrel glass. CIRCLE 022

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**LEVITON | WWW.LEVITON.COM**

Product: miniZ

Available in an easy-to-install package, the miniZ intelligent daylight management system combines occupancy sensing, daylight harvesting, and flexible lighting control functionality. Meeting a wide variety of commercial lighting needs, from basic switching to multi-zone daylight harvesting, the system's proprietary technology features automated photocell calibration to achieve maximum light output levels. CIRCLE 023

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**MECHOSHADE | WWW.MECHOSHADE.COM**

Product: WhisperTrak

WhisperTrak is a family of motorized drapery products characterized by a clean, monochromatic design that is whisper quiet and can bend to a radius of 8 inches. Three motor drive options—all on 24-volt operation—provide capacity for loads up to 220 pounds and 58 feet of drapery. Track lengths are available from 3 to 59 feet. CIRCLE 025

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**NATURALITE SKYLIGHT SYSTEMS | WWW.NATURALITE.COM**

Product: BMS-3000

The BMS-3000 structural skylight system holds both glass and plastic glazing materials in clear, tinted, and coated varieties. It is available in an assortment of finishes, including anodized, baked enamel, and Kyanar. Featuring a patented glazing clip to provide a thermal break and positive stop to prevent glass breakage, the system supports conventional, two-sided structural silicon and four-sided structural flush glazing techniques. Flush integral gutters are 2 1/2 inches wide and provide clean sight lines. CIRCLE 027

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**GE-PLASTICS | WWW.GE.COM**

Product: Lexan Thermoclear Multiwall Polycarbonate Sheet

This pre-assembled roofing system employs Lexan Thermoclear multiwall polycarbonate sheeting filled with Nanogel translucent aerogel from Cabot Corporation. In addition to its UV resistance, the product provides sound insulation, as well as the ability to withstand wind loads of up to 140 miles per hour. CIRCLE 029

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**SOLATUBE | WWW.SOLATUBE.COM**

Product: Zero-to-90 Degree Extension Tube

The Zero-to-90 Degree extension tube for the Solatube skylight allows for installation in almost any location without compromising lighting efficiency. Made of three built-in 30-degree-angle adapters, the tubing is able to bypass attic obstructions, jog across rafters, or hide installation on an opposite roofline. CIRCLE 030
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PRODUCTS

MATERIALS

TRANSFORMIT | WWW.TRANSFORMITDESIGN.COM
Product: Tension Fabric
Transformit’s collection of tension fabric products offer sophisticated walls and screens that can be used to create and define space on a permanent or temporary basis. Freestanding and hanging options are available, incorporating lightweight aluminum frame construction and skins that come in a variety of fabrics, colors, and patterns. The fabrics are available in different weights from 1 ounce per square yard to 8 ounces per square yard, and widths from almost 4 1/2 feet to 16 feet. Front and rear projection and backlighting are available with specialty fabrics. CIRCLE 032

GKD | WWW.GKD.DE
Product: Mediamesh
This wire mesh with embedded LEDs makes it possible to display electronic images on metal facades. Non-flammable and corrosive-resistant, the mesh is woven to a specified width and length, and then outfitted with LEDs and cabling. LED resolution can be varied based on requirements. Mesh arrives in rolls. CIRCLE 033

ACRILEX | WWW.ACRILEX.COM
Product: Acriglas Marble/Granite Acrylic Sheets
Suitable for applications that require complex formed or fabricated shapes, these acrylic sheets are available in an assortment of 12 standard colors and custom selections that resemble a natural stone palette. Lighter in weight and easier to fabricate than stone or glass, the sheets are durable, and come in a variety of sizes. Thicknesses range from 1/8 inch to 1/2 inch. CIRCLE 034

ALANOD | WWW.ALANOD.COM
Product: Miro Micro Matt
Appropriate for lighting systems that require a standard white look, the Miro Micro Matt is a reflective aluminum product that controls light direction and produces up to 20 percent more illumination than a light fixture with a white-paint reflector. CIRCLE 039

MB WELLINGTON STUDIO | WWW.LIGHTBLOCKS.COM
Product: Lightblocks
Scratch resistant with a soothing glow when illuminated, Lightblocks is a 100 percent-recyclable translucent plastic stronger than glass. Customizable for many interior or exterior architectural uses, including lighting fixtures, furniture, doors, ceilings, walls, flooring, or sculptures, the panels can be made in any transparency and any thickness. Lightblocks can also be custom textured or carved with graphic lettering. CIRCLE 040

CEELITE | WWW.CEELITE.COM
Product: 7501 Panel
Enabling 99 percent uniform backlighting, the CeeLite 7501 panel is paper-thin, lightweight, and flexible. Panels can be used indoors or out, on floors, walls, and surfaces, and around columns and pillars. Available in sizes up to 3 feet by 6 feet, the panel is illuminated by Osram Sylvania’s light-emitting phosphors sandwiched between a series of electrodes. An advanced inverter enables users to alter the brightness. Packaging options on multiple substrates (film, glass, and plastic injection molding) are also available. CIRCLE 043
**MATERIALS CONT.**

**3FORM | WWW.3-FORM.COM**

**Product: Full Circle**

Full Circle is a compelling collection of five architectural resin panels that utilizes renewable indigenous resources, provides new economic bases in emerging markets, and connects designers with a diverse set of artisan communities in Colombia, Indonesia, and Africa. Among the five products, for example, ithemba is made by African women affected by HIV and AIDS, and River Rock (shown) incorporates stones collected by poor communities in Indonesia. CIRCLE 045

**USG | WWW.USG.COM**

**Product: Wireworks**

The four Wireworks products (Weave, Ripple, Small Wave, and Big Wave) add a high-tech aesthetic to open-cell ceiling designs. And combined with light, the options are endless. Manufactured from 3/16-inch-thick curved steel wire, 2-foot-square lay-in panels form a three-dimensional shape, and can be used to create intricate ceiling patterns. The panels are available in a variety of high-gloss, powder-coat finishes, and custom colors. CIRCLE 046

**OCEAN OPTICS | WWW.OCEANOPTICS.COM**

**Product: SeaChanger**

Using the patented xG “Extreme Green” dichroic color filters, the SeaChanger color engine produces hues previously unattainable, according to the company, with standard CMY options. The device installs easily into ETC Source Four ellipsoidal and provides smooth color transitions across a wide spectrum, offering white-to-full saturation color in just one second. Weighing 12 pounds, the housing measures 7 inches by 11 1/2 inches. CIRCLE 048

**SOFTWARE**

**SUNLITE | WWW.NICOLAUDIE.COM**

**Product: Easy Stand Alone 2006**

The Easy Stand Alone 2006 lighting control software takes less than two minutes to set up, according to the company. DMX interfaces can be connected to the computer through USB or IP/Ethernet. If the latter is utilized, lighting fixtures can be controlled remotely from any computer within a network, or over the Internet. Controlling RGB fixtures—including LEDs—this software simplifies importing scrolling text, images, video, and color effects. Minimum system requirements include Windows XP, a 500MHz processor, 64MB RAM, 32MB Video, and at least one USB port. CIRCLE 050

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**PRODUCTS**

**SPECIALTY**

**FILTERS**

**OCEAN OPTICS | WWW.OCEANOPTICS.COM**

**Product: SeaChanger**

Using the patented xG “Extreme Green” dichroic color filters, the SeaChanger color engine produces hues previously unattainable, according to the company, with standard CMY options. The device installs easily into ETC Source Four ellipsoidal and provides smooth color transitions across a wide spectrum, offering white-to-full saturation color in just one second. Weighing 12 pounds, the housing measures 7 inches by 11 1/2 inches. CIRCLE 048

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THHC LIGHTING

Circle No. 02 or www.architecturallighting.com/productsinfo
DASLIGHT | WWW.DASLIGHT.COM
Product: DVC 2
DVC 2 includes new arrangements of functions, buttons, and windows. Providing a more intuitive user interface, which reduces programming time, the new tools include: group window, ordering fixtures and scenes, preset pallets, global multi-section, powerful LIVE control, and DMX universe management, to name a few. DVC 2 works only with the new USB to DMX interfaces. CIRCLE 052

EMERSON | WWW.EMERSONFANS.COM
Product: Banff
Featuring integrated uplighting from four 15W candelabra lamps and a dome that takes two 60W medium-base lamps, the Banff ceiling fan has a 52-inch blade span, 13-degree blade pitch, and three fan speeds. Dimming is modulated via an included wall control. The housing finish is pewter and the five blades are offered in a reversible dark cherry/mahogany finish. CIRCLE 059

LIGHTING ANALYSTS | WWW.AGI32.COM
Product: AGI32 Version 1.9
Based on user feedback, AGI32 Version 1.9 implements additional functionality, including: multi-scene animations from project renderings; luminaire aiming by visualizing light distribution with a new 3D photometric web; understanding electric light's interaction with interior glass; and enhanced photo-real renderings. Additional CAD functionality makes the software faster and easier to navigate. The radiosity solution file size has also been reduced by 60 percent, and write time by 90 percent, improving the ability to save rendered environments for later without recalculation. CIRCLE 053

HUNTER FAN COMPANY | WWW.HUNTERFAN.COM
Product: Zoe
The Zoe 52-inch-wide ceiling fan features four square-edged wooden-veneer blades and a glass shade that covers one 100W lamp. Finishes include a bronze patina housing with coffee beech blades, brushed nickel housing with blonde beech blades, and either an amber-cased glass shade or an angled amber-linen glass shade. The fan comes with remote control, a high-output motor, and Hunter's EZ Hang hanging system. CIRCLE 060

www.siriuslighting.com
Circle No. 587 or www.archlighting.com/productinfo

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Don’t Be LED Down The Garden Path!

Terrific new technology may not be everything it’s claimed!

Ruth Ellen Miller, DE Business Person of the Year 2000, is Pres. of NoUVIR Research. NoUVIR Research was featured on PBS television and recently given a National Chamber of Commerce 2006 Blue Ribbon award. Ruth Ellen continues her Lightfair tradition, with some practical advice on what you should look for and what you should look out for in the lighting industry. – Matthew Scott

MS: We've been doing this for six years now. Can you believe it?
REM: If we put all of these Lightfair articles together into a booklet we'd have quite a textbook on light and lighting, especially fiber optic lighting.

MS: You, where are things going in 2006?
REM: Energy conservation is going to be really big. Businesses and institutions in my area are facing 60% to 100% increases in electrical costs. Everyone is interested in lighting systems that save energy. Companies are pushing new technologies as meeting that interest. Lots of claims are being made. Some of them aren't accurate.

MS: Conservation, that's one place NoUVIR excels.
REM: It certainly is. I have utility studies to prove it. You know that NoUVIR Fiber Optic Systems can give you 32 individual spot lights with a single 150-watt lamp.

MS: Conservation, that's one place NoUVIR excels.
REM: It certainly is. I have utility studies to prove it. You know that NoUVIR Fiber Optic Systems can give you 32 individual spot lights with a single 150-watt lamp.

The L.A. Department of Water and Power certified that Florida Museum of Natural History can save $10,000 a year with 15 NoUVIR systems with a 50% replacement warranty left. With no UV and no IR they can go from 20% to 60% with no UV and no IR.

MS: Don't be LED down the garden path!
REM: Listen. NoUVIR fiber optic lighting is the best museum lighting system in the world. It's hugely energy efficient. It gives control over aim and focus that nothing else can. Nothing! In terms of performance we don't have any competitors. NoUVIR extends exhibit life by a factor of five. It has the best guarantee in the lighting world. But, it isn't for every application. We didn't design it to be. I don't expect it to be.

Because we offer free conceptual design help, I do a lot of lighting design. The day I don't want a client to get the best advice, the best design and the best products for their particular application, is the day I'll quit. Often the best solution is fiber optics. But, sometimes it's track, or LEDs, or fluorescents. There are always choices and tradeoffs.

MS: Don't be LED down the garden path!
REM: Not exactly, their fixtures stabilize somewhere in an art gallery, museum, or an archive to avoid future problems.

MS: You sound angry.
REM: I don't want to name names, but the published data for a "white" 30-LED fixture from one major U.S. lighting company shows 371 lumens output at 48-watts. That's an efficacy of 7.7 lumens per watt. A standard soft-white 60-watt light bulb will give 840 lumens. That's 14 lumens/watt. So these new, "white" LED fixtures have roughly half the energy efficiency of an incandescent light bulb.

MS: I guess not, but LEDs are no-heat sources, right?
REM: Not exactly, their fixtures stabilize somewhere above 40°F ambient temperature. You try building a row of 120° heaters into a display case and see how it works. IR free sources do not radiate heat! Pretending that IR radiation from the head is somehow different from IR radiation from a beam is either incredibly stupid or incredibly dishonest. Either way it's unconvincable.

MS: So LEDs aren't no UV, no IR?
REM: They claim to be a "no UV, no IR" source. This isn't true. In fact, their literature says you can ignore UV because it is "absorbed in the atmosphere" and "not observed in nature". Again, not true. UV in sunlight runs from about 200 nm to 380 nm. "White" LEDs are doped to filter UV, but they emit as much UVB and UVC as they do visible blue light, almost four microwatts per square centimeter.

Filtering UV just in the range of the average museum UV meter (300 to 400 nanometers) is not the same as having no UV. And the UV output they ignore is dangerous. Plank proved short wave UV penetrates deeper. Harrison showed it does more damage. Use these LED's in an art gallery, museum, or an archive and you can destroy your collection.

MS: You sound angry.
REM: I guess I am. NoUVIR is a true no UV source. I've spent millions of dollars developing lighting systems to protect our art and heritage. I've written books and papers on photochemical damage. My theories and products are in use around the world. We have 24 issued patents, all focused on preservation lighting.

These people have a well made, good quality product. I bought it. I tested it. It's in my lab. Why deliberately misrepresent data to sell it for applications where it is not suited and will cause harm? Market it for what it does well. What really frustrates me is that they are going to end up responsible for the loss of things that are irreplaceable.

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State-of-the-Art Dimming for Dummies: Part One BY JAMES BENYA

UNDERSTANDING THE TECHNICAL INS AND OUTS OF AVAILABLE DIMMING SYSTEMS

IN JUST ABOUT EVERY LIGHTING DESIGN, THE FINAL DETAIL IS THE ABILITY TO TUNE THE LIGHT. IF THE LIGHTING SCHEME PERMITS ADJUSTMENTS, SUCH AS LENSES OR COLOR, APPLYING THEM IS A FINE ART IN SKILLED HANDS. BUT DIMMING CAN ALSO CREATE THE PERFECT SCENE. TO MANY, THE CONCEPT MAY SEEM QUITE SIMPLE: TO DIM THE LIGHTS, ADD A "DIMMER." IN REALITY, WHILE A DIMMER CAN BE AS STRAIGHTFORWARD AS A WALL-SWITCH REPLACEMENT, IT CAN ALSO BE AS COMPLEX AS A MULTI-CHANNEL SCENE CONTROLLER, A THEATRICAL DIMMING SYSTEM, OR A PROGRAMMABLE FACILITY MANAGEMENT SYSTEM. ADD TO THAT THE LATEST GENERATIONS OF DIMMING BALLASTS, AND MODERN-DAY DIMMING IS NO LONGER AN EASY BET.

BASIC DIMMING

An incandescent lamp is dimmed when it operates at a lower voltage than that for which it was designed. As voltage decreases, lamp power and lumens also decrease accordingly. Many people who understand basic electric circuits think incandescent dimmers are rheostats, a type of variable resistor. Not true—in fact, the modern incandescent dimmer is actually a solid-state switching device that turns the light on and off 120 times per second. The combined thermal mass and persistence of the filament smoothes out the pulses of power so they are imperceptible. The human eye sees a brighter or dimmer light, depending on the proportion of "on" to "off" time. In other words, although the actual voltage is still 120, the average voltage is reduced. This is called phase-cut dimming. There are two primary types:

• FORWARD PHASE-CUT DIMMING, in which the lamp is energized only during the last portion of each power-line half cycle (See illustrations in "Matching the Dimmer to the Load," page 88). Forward phase-cut dimming is cheap, uses robust electronics, and is suitable for most loads, including regular incandescent lamps and magnetic transformers, as well as neon, cold cathode, and some types of fluorescent dimming ballasts and LED power supplies.

• REVERSE PHASE-CUT DIMMING, in which the lamp is energized during the initial portion of each power-line half cycle. Reverse phase-cut dimming is more expensive because it uses more complex electronics, but some loads, especially electronic transformers, operate better and make less audible noise when this type of dimmer is used.

In either case, the actual lighting load operates at the power-line frequency (60 hertz in North America and Japan, 50 hertz in most of the rest of the world). Sometimes noise-reduction devices, such as debuzzing coils, are needed to eliminate the hum that these systems generate.

DIMMING HIGH-TECH SOURCES

Electronic dimming ballasts, on the other hand, convert the alternating-current power line (50 to 60 hertz) to direct current, and then to a different frequency (usually over 30,000 hertz) to operate the lamp. During the conversion process, it is relatively easy to regulate the power to each lamp, but in order to signal the ballast to dim the lamps to a particular level, several protocols have evolved:

DIMMING HIGH-TECH SOURCES: THE FOUR PRIMARY CIRCUIT SCENARIOS

Understanding the technical ins and outs of dimming is no easy task—but it is critical to the successful specification of an appropriate system. The drawings above represent the four primary circuit structures available for today's dimming scenarios. It is important to note that none of the dimming approaches above is fully compatible with any of the others, so it is important to research, choose wisely, and avoid substitutions.
MATCHING THE DIMMER TO THE LOAD

A variety of lighting sources exist on the market. These sources have individual characteristics that require special types of dimmers. It is important to use a dimmer that is designed, tested, and UL-listed for the specific lighting source.

INCANDESCENT
Line-voltage tungsten filament lamps, including halogen
ELECTRICAL CHARACTERISTIC: Resistive SPECIAL REQUIREMENTS: Rated for cold filament input. Pulsating and negative periods may not be equal, resulting in a net DC voltage; do not use on MLV.

MAGNETIC LOW VOLTAGE (MLV)
Magnetic iron and coil, toroidal transformer-supplied low-voltage lighting
ELECTRICAL CHARACTERISTIC: Inductive SPECIAL REQUIREMENTS: Symmetric cycles (VDCs 2), smooth turn-off (positive and negative periods are equal for safe MLV transformer operation).

ELECTRONIC LOW VOLTAGE (ELV)
Electronic (solid-state) transformer-supplied low-voltage lighting
ELECTRICAL CHARACTERISTIC: Capacitive SPECIAL REQUIREMENTS: Smooth turn-on at zero voltage (reverse phase-cut for no damaging current spikes), neutral wire connection.

NEON/COLD CATHODE
Highly inductive boost transformer for neon/cold cathode lighting
ELECTRICAL CHARACTERISTIC: Highly inductive SPECIAL REQUIREMENTS: Very smooth turn-off (positive and negative periods are equal for safe magnetic transformer operation), symmetric cycles (VDCs 2), neutral wire connection.

FLUORESCENT
Electronic fluorescent dimming ballast
Special dimmers are designed and UL-listed to send power and control signals to each type of electronic fluorescent dimming ballast: 3-wire, 2-wire, and 0V-10V.

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- THREE-WIRE ANALOG POWER DIMMING These circuits incorporate a special type of forward phase-cut dimmer with three wires (dimmed hot, switched hot, and neutral) to control specific three-wire electronic dimming ballasts. Both Lutron and Lightolier make fluorescent ballasts and controls using three-wire circuits. Three-wire ballasts connect to a wide range of dimmers, such as wall-switch and architectural dimming systems. However, specific dimmers for three-wire ballasts must be used. The three-wire system is the oldest protocol and offers some of the best dimming ballast performance. (See diagrams on page 87 for visual clarification of this and the following three scenarios.)

- TWO-WIRE ANALOG POWER DIMMING A few ballasts have been cleverly designed to use forward phase-cut two-wire incandescent dimming circuits, principally the Advance Mark X and Lutron Tu-Wire fluorescent ballasts. This system is handy because it employs relatively inexpensive dimmers and is wired using a conventional switched lighting circuit with two wires.

- FOUR-WIRE 10V ANALOG SIGNAL DIMMING The most common dimming ballasts have two power wires (switched hot and neutral) and two wires that connect to a low-voltage circuit. This is probably the most universal ballast protocol available today for U.S. and European fluorescent lamp ballasts, as well as for some of the latest HID electronic ballasts. For wall-switch dimming, special dimmers or interfaces must be used, but simple interfaces are available for most architectural and theatrical dimming systems, and for a wide range of daylight sensors. Note that these ballasts cannot turn themselves on and off like DALI ballasts, so in addition to the low-voltage-level control circuit, there must be a line-voltage switch as well.

- DALI DIGITAL SIGNAL DIMMING European ballast companies recently joined together to develop a digital protocol called the Digital Addressable Lighting Interface (DALI). In a DALI system, the ballast connects only to power and to the DALI bus; on/off switching, as well as light-level control, occurs in the ballast. There are DALI-controlled conventional dimmers and low-voltage electronic transformers as well, essentially eliminating wall-switch dimmers and dimming cabinets as we know them. Control-initiating devices are also digital, allowing the use of everything from pushbuttons and touch switches to daylight sensors and LCD control stations.

- OTHER DIGITAL DIMMING SYSTEMS Several other digital dimming systems can be found in the marketplace. For example, Universal Ballast offers the AddressPro dimming system, also sold as the Cooper DLS system. In Europe, several companies make products using the Digital Serial Interface (DSI) system. Some products work on both DSI and DALI. Like DALI, these systems include dimming ballasts, conventional dimmers, dimming electronic transformers, and sending devices.

In addition, there are communications systems and protocols to which lighting systems can connect. These range from general-purpose
communications systems like TCP/IP Ethernet and IEEE 485, to theatrical lighting controls using DMX-512 and building-technology-specific controls like the European Installation Bus (EIB) and BacNET, the U.S. equivalent. (These will be discussed in more detail in Part Two of this series.)

COMPATIBILITY: A CRITICAL QUESTION
The lighting specifier is fundamentally responsible for ensuring that lighting loads and dimming ballasts are compatible with the intended control system—no easy task considering the many complex options available today. This point is critical: NONE of the dimming approaches listed above is fully compatible with ANY of the others. If you carelessly specify “dimming ballast” these days, be prepared for an unhappy situation. For instance, the two-wire dimming ballast and respective dimmer is often the least expensive. But I don’t know of a single daylight sensor that can be connected directly to this type of ballast without first being processed by some type of architectural dimming system. Similarly, the generic 10V dimming ballast cannot operate on a standard wall-switch dimmer, but instead requires a specific and harder-to-find dimmer or an interface box. Contractors usually do not spot these problems until installation time, which then involves a rush to get new parts and perhaps some rewiring. But these are the ballasts that are needed to interface to most daylighting photosensors.

As a basic rule, decide at the beginning of the project which dimming approaches will be used. If the design employs control devices from multiple manufacturers, especially automated daylight sensors, it is best to use the 10V analog system, as there is reasonable compatibility among ballasts and control devices. However, if the design involves a basic manual dimming system using wall-switch devices, or if it is based around an architectural dimming system consisting of multiple dimmer cabinets or a digital system of any kind, specify ballasts and dimmers as recommended by the control system manufacturer to ensure compatibility, and do not allow substitutions. Note that to help alleviate this problem, some companies make dimming ballasts that can be connected in two or three different ways. For example, there is at least one ballast that can be connected to a 0V-10V analog or two-wire dimming circuit, making it compatible with most analog circuits.

Perhaps a bigger question is which type of control system to use for each project. The new digital generation of lighting controls makes the choice of dimming system that much more difficult. Part Two of this series will examine the applicability and performance of these different dimming systems, including some critical issues professional designers must address when implementing them.

James Benya is a professional lighting designer and principal of Benya Lighting Design in West Linn, Oregon. He is an editor-at-large for AJL.

DIMMING FOR LEDS:
If you think dimming fluorescent lamps is complicated, buckle your seat belt for LEDs. Each LED operates at very low voltage (2 to 4 volts, typically), and the power to each LED is regulated by a power supply or driver. The driver usually converts line power to direct current (DC), then the DC power is chopped, regulated, and sent to the LED. "Chopped" generally means turned on and off very rapidly, but as with fluorescent lighting, at 30 KHz or greater to prevent visible flicker. The longer the "on" time, the brighter the LED. But this is not universal: the LED flicker can be annoying, and a new generation of analog variable-voltage LED dimming has recently been announced.

Because LEDs are new and rapidly evolving, there are many different drivers and circuits, and almost no standards exist. The more sophisticated LED manufacturers, such as Color Kinetics and TIR, have designed their systems to interface with industry standard control systems, such as DMX-512 or 10V. But for the vast majority of simple LED products, the proper dimming approach may be difficult to determine.

For more about LED dimming, see the Lighting Controls Association website at www.aboutlightingcontrols.org/education/papers/controlLED.shtml.
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**DEADLINE FOR ENTRIES:** JULY 7, 2006

Please cut out and fax
**Beta Lighting**

Beta Lighting has added a Large Aviator to its architectural area light series. It is available in a segmented Type III, IV, or V optic and meets IESNA Full Cutoff Classification (except 1000W HPS). The 25-inch-wide-by-14.4-inch-deep housing accommodates 250W to 1000W metal halide, pulse-start metal halide, and high-pressure sodium lamps. CIRCLE 061

**Brass Light Gallery**

ADA-compliant wall sconce, available in both incandescent and compact fluorescent, from Brass Light Gallery. Designers and manufacturers of architectural lighting since 1974. Available to academic institutions, hotels/resorts, clubs, hospitals, assisted-living facilities, restaurants, and offices. Superior construction and quality finish options, made in the USA. Visit www.brasslight.com, call 800.243.9595, or contact commercial@brasslight.com. CIRCLE 064

**Con-Tech Lighting**

Con-Tech Lighting introduces the AroTech 39W CDM-R111 ceramic metal halide track fixture, featuring the energy-efficient, long-life CDM-R111 lamp. This fixture provides 358-degree horizontal rotation, 190-degree vertical rotation, and precise beam control for maximum flexibility. This fixture also features the Aromat miniSlim electronic ballast and an integral on/off switch for convenient power. CIRCLE 065

**Cree**

Cree XLamp 7090 LEDs deliver the industry's highest-performance power LEDs in a rugged, reflow-solderable surface-mount package optimized for design flexibility, ease of use, and thermal efficiency. To register to be considered for Cree XLamp LED samples, visit www.cree.com/xlamp, or call 800.533.2583. CIRCLE 066

**Day-Brite Lighting**

Day-Brite’s Attune family forms a stylized architectural package providing highly efficient illumination with excellent visual comfort. Any space can be customized using multiple ceiling options, photometric distributions, lamp types (T8 and T5), and shielding options. A single captive enclosure with easy lamp and ballast access from below provides unparalleled ease of maintenance. CIRCLE 067

**Dual-Lite**

LiteScape’s patented SurePath technology eliminates the tedious guesswork in developing optimum interior egress lighting path layouts. Raising the industry standard for performance and safety, LiteScape delivers 100 percent NFPA 101 code-compliant high-performance halogen lamp illumination. LiteScape is also easy to install, conveniently paintable, and fully guaranteed—an industry first. CIRCLE 070

**Elliptipar**

Elliptipar's 30-30 Stack Light generates 30 vertical footcandles at 30 inches, exceeds IESNA recommended light levels, and complies with ASHRAE/IESNA Energy Standards and California's Title 24. Using one 28W T5 lamp, the 30-30 is an energy-efficient, high-performance solution to stack lighting. CIRCLE 071

**ERCO**

ERCO introduces the new Grasshopper projector for outdoor use. The Grasshopper will utilize the new 20W metal halide lamp technology, as well as newly refined 1W high-powered LEDs. The Grasshopper is ideal for lighting signage, building facades, and outdoor foliage. Available now. CIRCLE 075

**Estiluz**

COrvIO is a retro-style table lamp with an opal glass shade. This unique luminaire is a conversation piece for any space and is available in two different sizes: 10 inches in diameter by 6 1/2 inches in height (B1355), and 13 1/2 inches in diameter by 8 1/2 inches in height (B1356). CIRCLE 076

**Focal Point**

Meet Apollo from Focal Point. A light that does double duty as a patient's best friend and the medical team's right hand. Apollo combines a recessed bed light, an exam light, and a reading light in one. Its satisfying light levels deliver optimal illumination that gives everybody what they need. CIRCLE 078

**Gotham Lighting**

Elevations blends elegance, design versatility, and superior performance into today's ultimate architectural pendant. Its sleek, understated lines can be embellished with decorative touches. Glowing glass shades in blue, amber, or white in 4-inch Elevations match expressive Candeo and Ice aperture treatments in 8-inch luminaires. Pendant, ceiling, and wall-mount versions satisfy varying needs. Visit www.gothamlighting.com. CIRCLE 079
**Halo Lighting**

Offering a minimal ceiling presence but delivering high light output, the petite size of the new H3 Series complements the existing Halo family of 4-, 5-, and 6-inch trims for a cohesive appearance. Nine trim styles are available in multiple finishes, including new high-quality designer metallic finishes of Satin Nickel, Antique Copper, and Tuscan Bronze. For more information, visit www.cooperlighting.com, call 770.486.4800, or e-mail talktous@cooperlighting.com. CIRCLE 080

**Heatron**

Heatron's Elpor Steel Metal Core Printed Circuit Boards utilize a porcelain ceramic coating to provide primary electrical insulation between the printed circuit and the steel core. This high-temperature coating helps resist moisture and corrosion and allows board designs with greater resistance to mechanical shock, excellent heat dissipation, and zero water absorption. For more information, contact Jason L. Martin at jasonnm@heatron.com, or 913.651.4420. CIRCLE 081

**Kim Lighting**

The Wall Commander is a new rectilinear wall luminaire series with full-reflector optical systems available in downlight only, uplight only, and up/down configurations. Available in two sizes, the Wall Commander provides high-output illumination for use in area lighting, and striking accent effects, such as the dramatic multi-color ray. StarView-compliant versions for use in dark-sky projects are also available. CIRCLE 082

**Lighting Services Inc**

The GR16 Series from Lighting Services Inc complements any architectural space with a sleek, minimal style. The recessed, inline transformer allows the GR16 to accommodate all energy-efficient MR16 lamps from 20W to 75W. Lighting Services Inc, 2 Kay Fries Drive, Stony Point, NY 10980; 800.999.9574 (phone); 645.942.2177 (fax); www.LightingServicesInc.com. CIRCLE 083

**Lightolier**


**Litecontrol**

The Mod'Family is the latest generation of an "industry standard" Mod fixture design from Litecontrol. Mod represents an evolution in design and performance. Mods are now available in a small fixture cross-section for suspended, surface, and wall applications. For more information, visit www.litecontrol.com, or call 781.294.0100. Litecontrol is an employee-owned company located at 100 Hawks Avenue, Hanson, MA 02341. CIRCLE 085

**Lithonia Lighting**

The OMERO Architectural Outdoor Family of area, wall-mounted, and bollard luminaires takes outdoor lighting to the forefront. Their distinctive designs, signature accents, and uncompromising performance complement any environment, and versatile mounting options, multiple performance optics, and an entire family of cohesively designed products provide another choice from Lithonia Lighting. Visit www.lithonia.com/omero or call 800.279.8041. CIRCLE 086

**Lumec**

The asymmetrical shape of the Oval Series represents a new era in architectural design. Its elliptical profile offers a bold alternative in a world of circular and rectilinear products. Softly contoured, the Oval has undeniable appeal and a distinctive presence that enhances the architectural environment. Meet us at AIA 2006, booth #1827. CIRCLE 087

**MechoShade**

The ultimate in motorized drapery systems—WhisperTrak. Whisper-quiet operation and clean monochromatic design. Available in either straight or curved lengths up to 59 feet. A 15-channel IR remote offers five preset stop positions and group control settings. Integrates with home and building automation systems. Five-year warranty. Visit www.mechoshade.com, or call 718.729.2020 CIRCLE 088

**NoUVIR Research**

NoUVIR Penta-Fol fiber-optic spotlight. Heatless equivalent to 25W halogen. Adjustable focus. Easy 14-foot throws. Flush or bracket mount. Optional mirror for 45- to 90-degree off-axis aim. Six Penta-Fo1 or 32 single-fiber luminaires from one projector. Pure-white, stone-cold fiber-optic lighting with no UV, no IR... from NoUVIR Research. Call 302.628.9933 for details. CIRCLE 089

**OCL**

The new MoonLight series from OCL will bring sophisticated styling and a soft mellow glow to any architectural setting. MoonLight comes standard in natural brushed aluminum with a softly green-tinted, sandblasted lens. It hangs gracefully as a cable-suspended pendant, and makes a strong statement as a sconce or ceiling fixture. For more information, visit www.OCL.com. CIRCLE 090

**Pathway Lighting**

PATHWAY the Lighting Source announces Ovela Architectural Suspended Accent Light. It features an ultra-compact housing and a unique adjustable suspension height, which makes it ideal for areas with high ceilings, such as retail stores, displays, museums, lobbies, restaurants, and more. Pathway Lighting Products, Inc., Old Saybrook, CT 06475-0591; 900.342.0592; www.pathwaylighting.com. CIRCLE 091
**Precision Architectural Lighting**

A contemporary, specification-grade aluminum fixture available in perimeter and suspended configurations. PAL's new Luminita II linear fluorescent series enhances the appearance of offices, libraries, schools, and hospitals. Offered in two-, three-, or four-lamp profiles, the luminaire takes T8 or T5HO lamps and has an optional isolation reflector that yields up to 43 percent downlight. **CIRCLE 101**

**Prescolite**

Prescolite has been designing solutions for the lighting industry throughout its 60-year history. A division of Hubbell Lighting, Prescolite designs and manufactures high-performance downlighting, track, and surface lighting products. Literature, detailed specifications, and pricing information are available online at www.prescolite.com, or by calling 888-PRS-4TEC. **CIRCLE 102**

**Selux**

Extruded aluminum, precision fixtures in suspended, surface-mount, recessed, wall-mount, and new wall-washer configurations. Design flexibility and user-friendly specification with the new 2006 Specification booklet available from SELUX, or downloadable from our website. For clean linear fixtures with many standard and custom options, SELUX M-Series. SELUX Corporation; 800.735.8927; www.selux.com/usa. **CIRCLE 103**

**Sentry Electric**

Sentry offers a comprehensive line of luminaires from classic designs to contemporary and modern. Sentry 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 104**

**Sirius Lighting**

From Sirius Lighting comes the latest in LED fixtures. The M Beta DS is a 1W rail-mounted fixture that is fully aimable. Perfect for casework, jewelry, and even chocolate applications, it is available in cool and warm color temperatures and generates very little heat. **CIRCLE 105**

**Square D Clipsal**

The Square D Clipsal Saturn keypads are crafted from glass and available in two-, four- and six-key switch gangs. Each silver push button is capable of being programmed to perform on/off, dimming, timer, and custom functions, and features configurable blue and orange LED switch indicators that provide illumination and status feedback. Remote control functionality is also available. Call 1-888-SQUARED, or visit www.squaredlightingcontrol.com. **CIRCLE 106**

**Super Vision International**

SaVi SHO is a new architectural Super High Output, full spectrum (RGB) LED floodlight. It features the world's brightest RGB LED lighting system for unmatched performance. It is capable of 16 million colors and is fully controllable by DMX. Color effects include static colors, cross fading, and single-color rotation. For more information, visit www.svision.com, or call 407.857.9900. **CIRCLE 107**

**THHC Lighting**

THHC Lighting is the leading manufacturer of low-voltage and line-voltage low-pressured xenon lamps for a variety of general and specialty illumination applications, including landscape, showcase, decorative, and architectural designs. THHC offers the most complete line of xenon lamps in the industry, including: wedge base, festoon, rigid loop, cartridge, G4 bi-pin, GY6.35 bi-pin, E11, E12, and BA15D. Call 877Xelogen or visit www.xelogen.com for more information. **CIRCLE 108**

**Times Square Lighting**

The MC202 is available in 120V or 277V and utilizes a 20W PAR20 ceramic metal halide lamp that lasts two to three times longer than a standard incandescent or halogen PAR lamp and has a rated average life of 7,500 hours. Each fixture features an electronic vertical ballast with an adjustable self-locking head and hinged front. An internal accessory ring accommodates louvers, glass filters, barndoors, and hoods. Visit www.tslight.com, or call 845.947.3034. **CIRCLE 109**

**Universal Lighting**

The E-tensity electronic HID ballasts from Universal Lighting offer 30 percent energy savings over magnetic HID in high ceiling applications. Its sound rating earns an "A," while fixture efficiency is over 90 percent. From 20W lamps to a 400W pulse-start lamp, the lights switch on instantly with no warm-up delay. For more information, visit www.universalballast.com. **CIRCLE 110**

**Venture Lighting**

Venture Uni-Form Natural White pulse-start metal halide lamp and ballast systems produce wide, full-spectrum lighting over indoor or outdoor areas. They mimic the high color rendition of natural sunlight, enhancing any commercial, industrial, or institutional space, grounds, or roadway. E-mail venture@adlt.com or visit www.venturelighting.com. **CIRCLE 111**

**W2 Architectural Lighting**

W2 ARCHITECTURAL LIGHTING, a new division of W.A.C. Lighting, introduces Flexrail2, a two-circuit, line-voltage bendable rail system with a contemporary look and complete palette of lighting tools, including line- and low-voltage spots, floods, wall-washers, pendants, and accent lights. The system can be custom designed and is offered in platinum and bronze finishes. Visit www.w2lighting.com, call 888.788.2100, or fax 516.393.3084. **CIRCLE 112**
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LIGHTFAIR 2006, Las Vegas, Booth #102
Products That Do Good

This year, Architectural Lighting's editors were compelled by the good intentions of several manufacturers to make the world a better place—with products that give a nod to the ideas of reuse and recycling, or that offer a hand to struggling communities in places such as Columbia, Indonesia, and Africa. While not an overwhelming trend, it is a rustling in the bushes that deserves attention. We also recognized the ever-intensifying industry attention to products that embrace the notion of daylight as an essential design tool. Lastly, we were very interested to learn of a new ballast, designed to aid the overburdened power grid—and in the process, save energy—currently being developed by the Lighting Research Center. Three cheers from all of us to these efforts!

Community Commitment

Besides being downright beautiful when artfully combined with light, 3form's products have achieved a new level of responsibility with the Full Circle line. Including five options, the collection utilizes renewable resources provided by communities from developing countries. River Rock (top) incorporates stones collected by Indonesian villages adversely affected by the tsunami. Palau (above) includes bark, gathered and processed by indigenous peoples in rural Columbia, from the coconut palm. Another, Ithemba, featuring woven wire mesh, utilizes the efforts of African women artisans afflicted with AIDS or HIV. (For a circle number, see page 82.)

Recycled and Recyclable

A few manufacturers are recognizing the importance of reuse. Though not a full-on trend in the lighting industry (unlike carpeting manufacturers, who have been onto recycling for years), it is worthy of note. Eleek, a company in Portland, Oregon, has created its entire product line around the concept, with items such as the Spoon sconce (above left) and the Pod, Starlight, and Normandy pendants (above) all fabricated from recycled metals. (See other Eleek products on pages 34 and 55.) Meanwhile, MB Wellington Studio addresses the issue from the opposite direction: its plastic Lightblocks products (top) are fully recyclable (page 81).

Brand New Day ... Light

Solar-control products abound; indeed, this year they earned their own page. From glass, to shading systems, to controls, the category is expanding. Pictured center, PPG's architectural glass product Vistacool Azuria, when combined with Solarban 60 low-E glass, provides a light-to-solar-gain ratio of 1.63 (page 79). (The company's impressive Solarban 70XL actually maintains a ratio of 2.33. See "The Light Stuff," Nov/Dec 2005.) Nysan's GreenScreen Eco (left)—also featured in "The Light Stuff"—is just one of a growing number of attractive solar-aware shading options, while products, including the LightHawk from Hubbell (right), incorporate daylight sensors (page 63).

The Amazing Load-Shedding Ballast

Electricity is a hot topic—particularly how to save it—since the costs have risen sharply. Concerns about the nation's stressed power grid are also growing, for good reason as anyone in New York City or California knows. An exciting product recently developed by the Lighting Research Center (LRC) is offering a solution: though it looks like any other ballast, the mechanism will help shed the electric load within a building's fluorescent lighting matrix by dimming the fixtures via an electronic signal from the power company or a facility management system. A transmitter, after receiving the signal, communicates with the ballast via a power line carrier. One transmitter can control 100 load-shedding ballasts. The LRC has found that building occupants will accept 50 percent dimming, if they know it is for a reason. The product, which is currently being tested in a Northeast Con Edison facility, will be manufactured by Osram Sylvania.
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