

# AL

Architectural | lighting

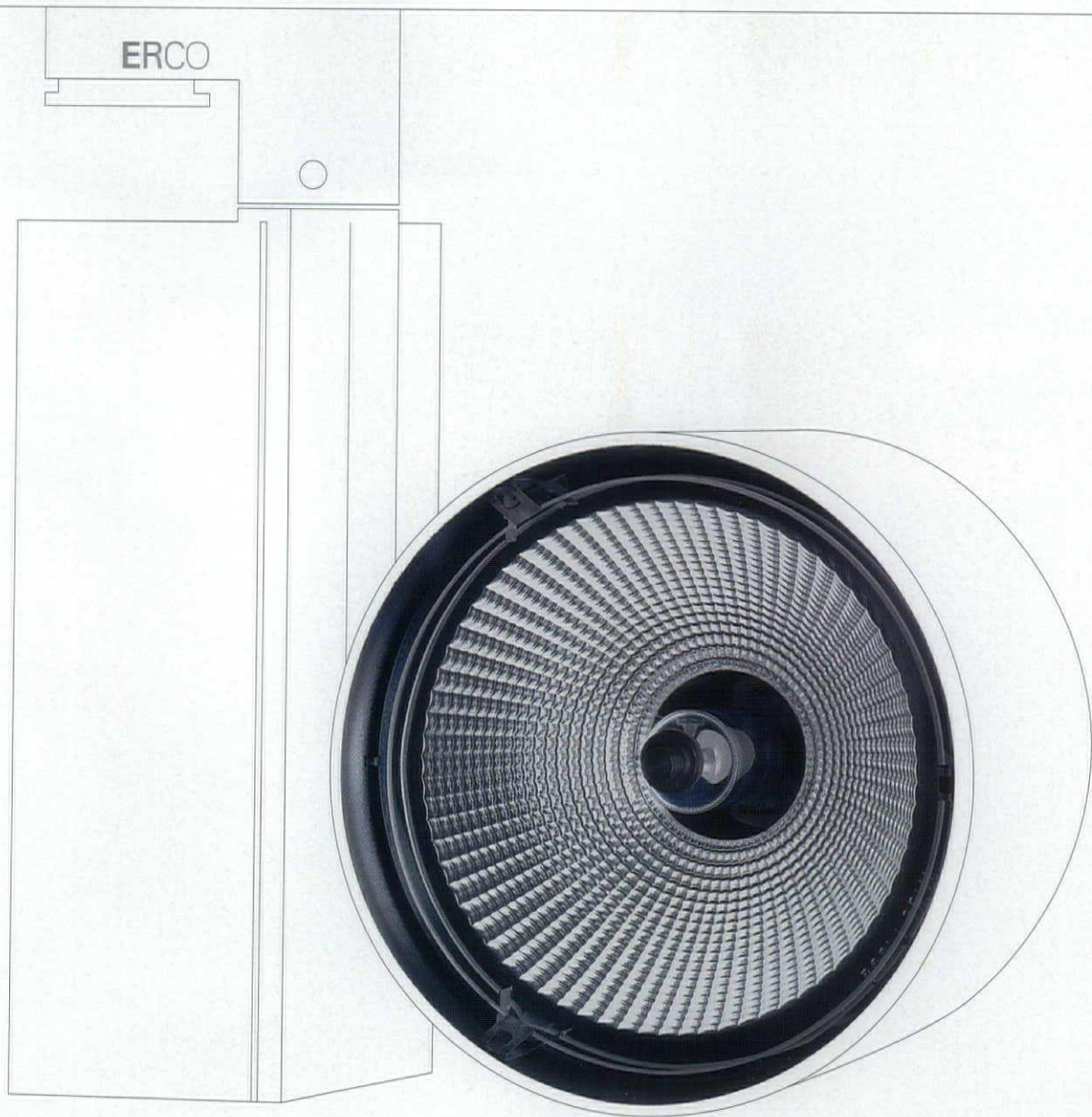
## HIGH ON DAYLIGHT

US SUSTAINABILITY CONSIDERED | RESIDENTIAL DESIGN FOCUS | 2006 LIGHTING SOURCE DIRECTORY



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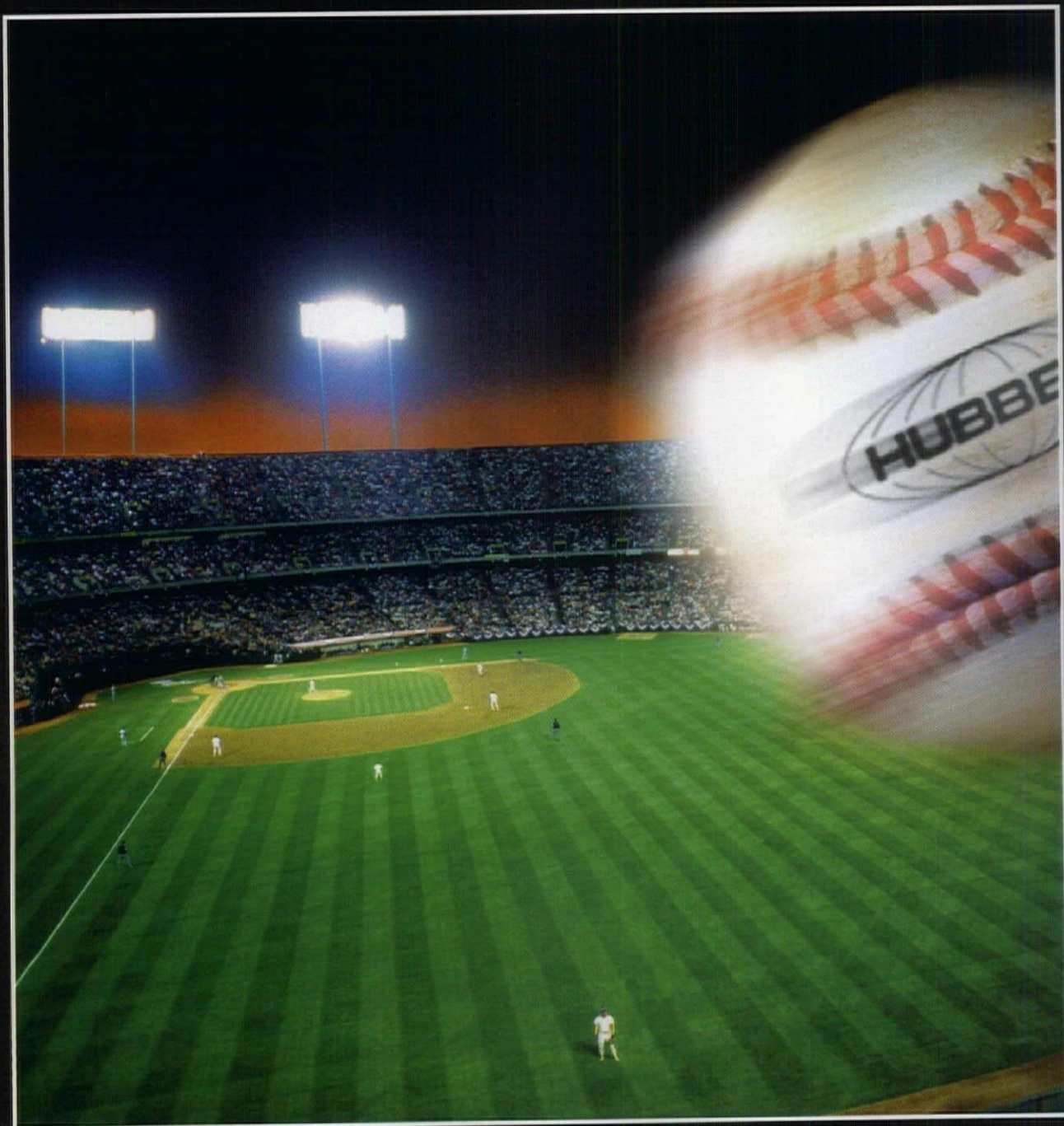
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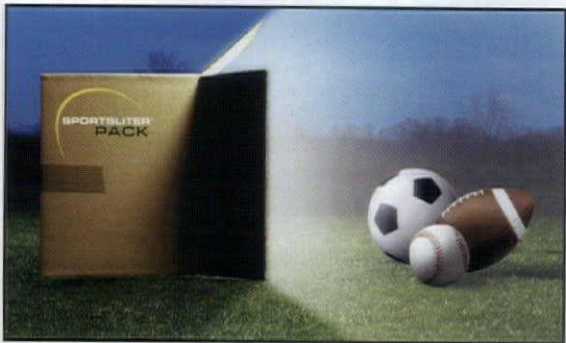


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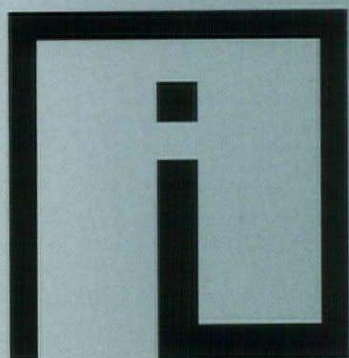
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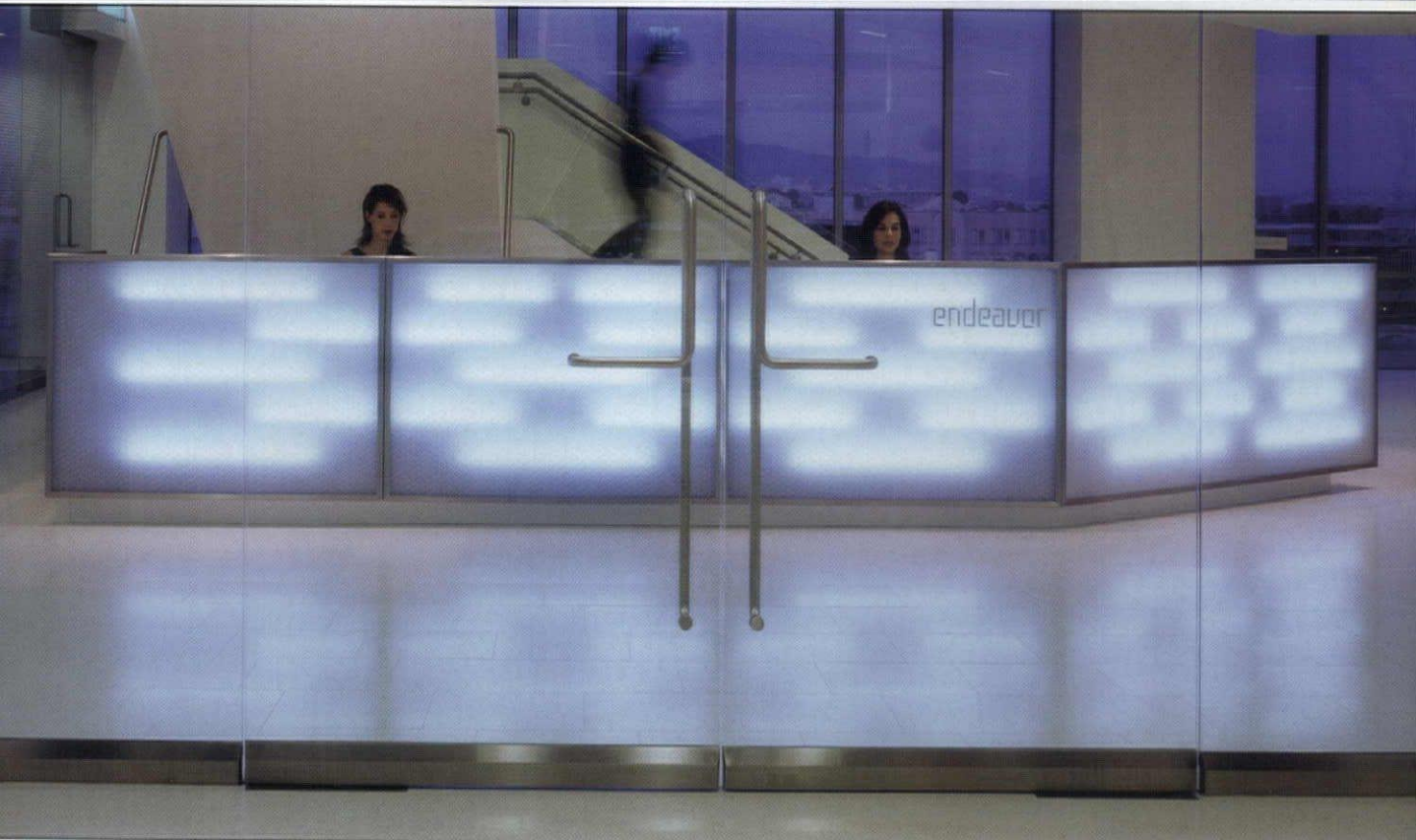
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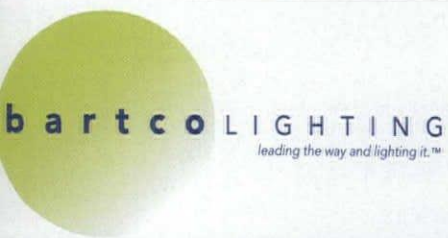
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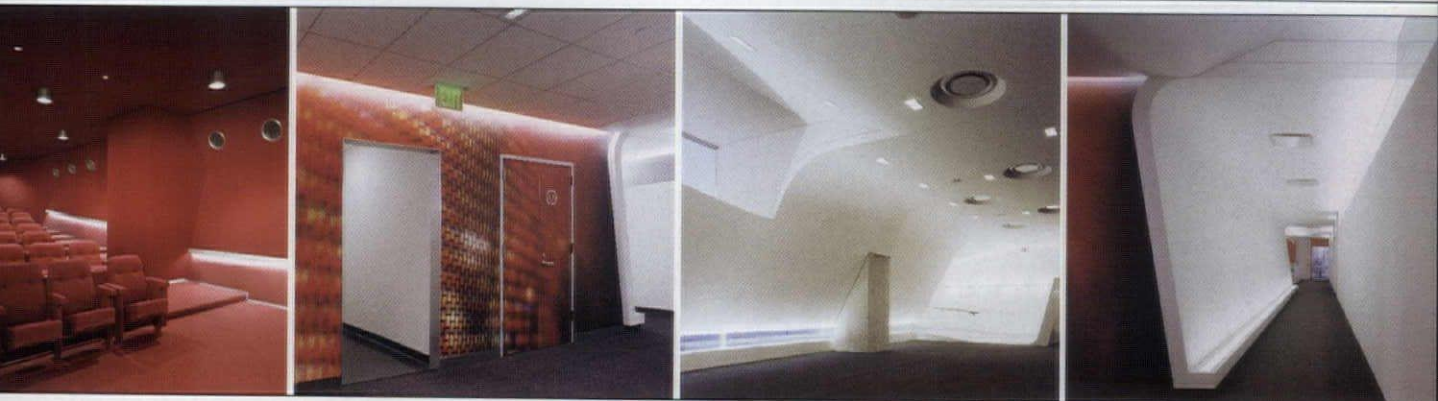


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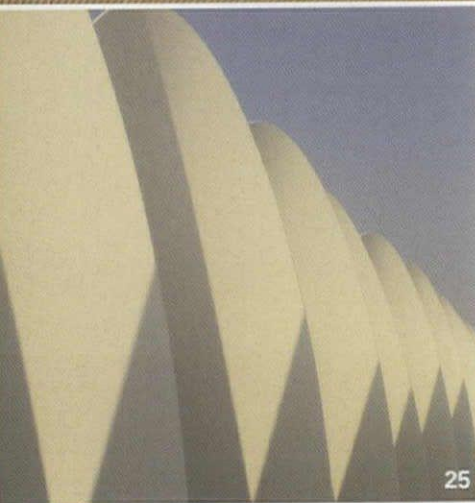


**Cover:** The High Museum of Art's recent expansion features a daylighting system that is both technically sound and artistically realized. PHOTO: FLOTO+WARNER

**This page:** The Lick-Wilmerding High School, San Francisco; white aluminum shields of the High Museum's skylights, Atlanta; detail of Cornell University's Solar Decathlon home; drawing detail of the High Museum daylighting system.



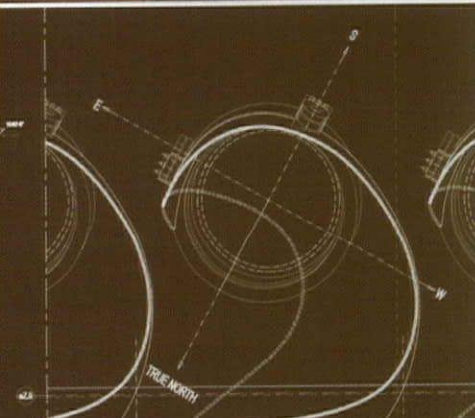
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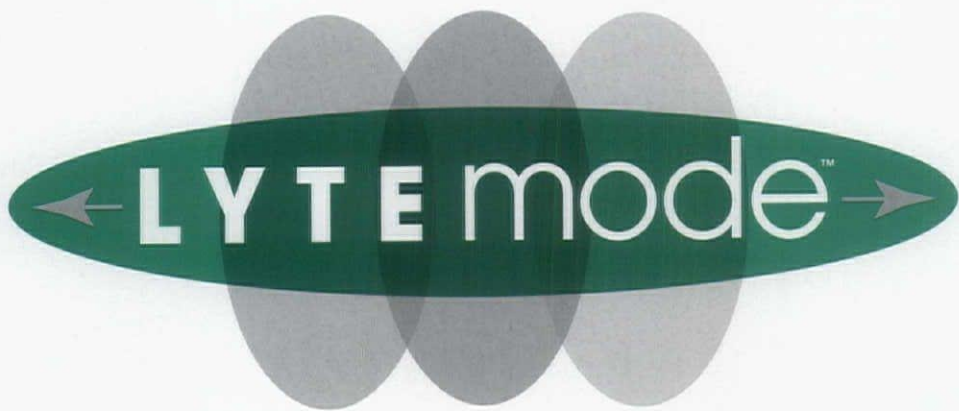
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## One Special Issue

**THIS ISSUE OF A|L CONSIDERS** sustainable design, specifically as it pertains to lighting. I am excited to report there was a lot

to say—almost every page deals with it—because there is a lot happening. Two institutional projects demonstrate the innovative use of daylighting; the Residential Design Focus features the Solar Decathlon competition recently held in Washington; a section on products only brushes the surface of the exciting “green” offerings out there; and a trio of reports explores the sustainable design movement’s impact on lighting practitioners, manufacturers, and technologies.

The breadth of industry discussion and participation (Bruce Hostetter reports the Greenbuild conference was bigger than ever, page 11) and the growing body of “green” work (as of November, 3,000 projects had applied for LEED status) is encouraging. Cynics among us will question the sincerity of the current buzz, but frankly, who cares what drives it? Marketing strategy, expensive energy, design fashion, or genuine concern for the environment: with persistent momentum, all could lead to the same commendable end—beautiful buildings and products that function better within sustainable criteria.

An equally worthy objective is the eradication of all “special” issues dedicated to the topic. This is not the yawp of a tired editor, but rather a call for the incorporation of green practices so thoroughly in the design and building process, there is nothing special about it. “Designing sustainable buildings just has to be part of what we consider good design,” notes Denise Fong in senior editor Elizabeth Donoff’s industry report “Designers Revisit Sustainability” on page 21. “That some people would choose to be sustainable and others wouldn’t—that doesn’t make any sense to me.” Or to me. (I will note, however, that sustainable design and aesthetically interesting design do not consistently go hand-in-hand, and currently, A|L attempts to cover both.)

PHOTO BY BJORN WALLANDER

This month, a second topic, appropriate for editorializing, presented itself at the IALD Education Conference held October 21 and 22 in Alexandria, Virginia. (See “IALD Conference,” page 13.) The event, which counted 31 students among its almost 200 attendees, and which made impressive efforts to incorporate the younger crowd into its program, reiterated how essential it is for practitioners and professional organizations to speak to and respect their successors. The IALD—a unique organization in its sense of community and spirit, in my experience—seems to be making such dialogue a priority, an effort that will serve it well as these students mature and contribute to the cause of well-designed lighting in general, and the IALD in specific.

The next generation, and the issue of sustainability, are not unrelated. As “Designers Revisit Sustainability” points out, it is the younger professionals that are pushing boundaries and agendas when it comes to sustainable design—even without the topic being required course content in U.S. design education. It is this community that will push the issue, with the design firms, manufacturers, and clients it encounters. It is the next generation that will turn a “special” issue into an everyday best practice.

**EMILIE W. SOMMERHOFF**  
GROUP EDITOR-IN-CHIEF

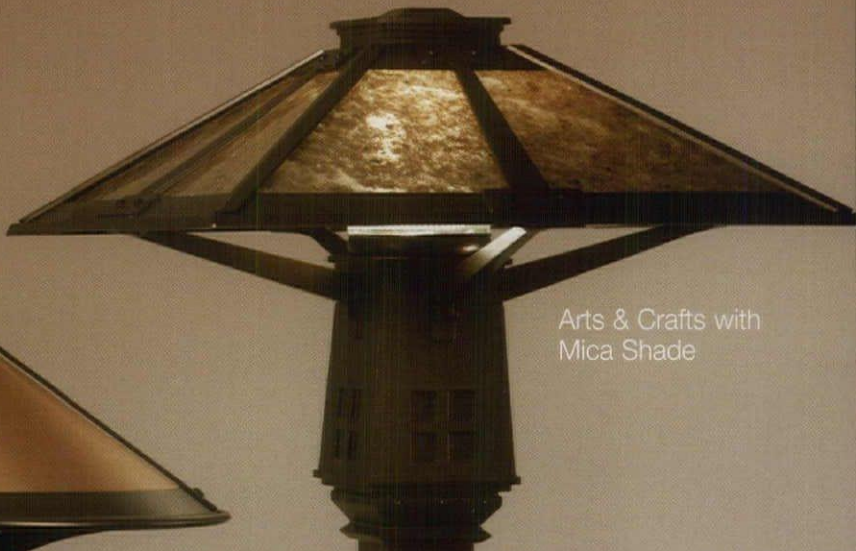
### JAN/FEB 2006 EXCHANGE QUESTION:

As A|L enters its 20th anniversary year, we’d like to know what you consider landmark moments in the architectural lighting profession? Is it a specific project, a technical advancement, the design of a luminaire, the formation of a group or a professional organization? What, to you, have been the key moments in the lighting industry?

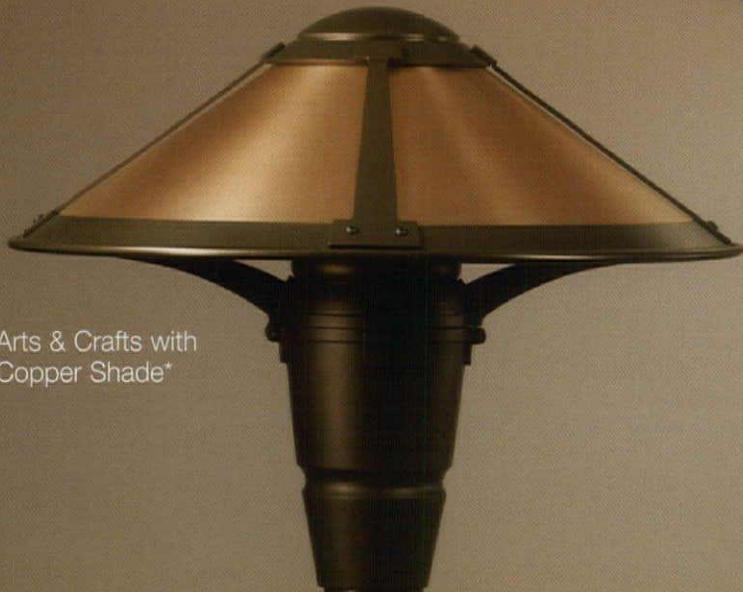
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## REPORT FROM GREENBUILD

**GREENBUILD 2005, THE ANNUAL INTERNATIONAL CONFERENCE AND EXPO ORGANIZED** by the U.S. Green Building Council (USGBC) was held this November in Atlanta. Attended this year by nearly 12,000 people (up 3,000 from last year), Greenbuild attracts a larger audience every year. Keynote speakers included industrialist Ray Anderson, CEO of carpet manufacturer Interface; natural science writer Janine Benyus, author of *Biomimicry: Innovation Inspired by Nature*; environmentalist Paul Hawken, author of *Natural Capitalism*; and Duane Elgin, author of *Promise Ahead: A Vision of Hope and Action for Humanity's Future*.

Most architects and designers associate the USGBC with the various Leadership in Energy and Environmental Design (LEED) rating products. However, what many do not realize is that LEED is only one of six strategic goals of the USGBC, all of which were addressed at Greenbuild. The other five categories include: Community, Research, Education, Advocacy, and Organizational Excellence. Here are some of the issues discussed in relation to these topics.

**LEED** The big announcement this year was that development has begun for LEED-New Construction version 3.0. This product has been reconfigured to score projects by addressing greenhouse gas emissions as they relate to specific regions. Another significant development was the announcement of a new streamlined LEED documentation and certification process. Projects can now be filed online at either the design or construction phase.

**COMMUNITY** As LEED 3.0 proceeds, new partnerships in the various professional communities will be needed to provide improved peer involvement and peer review. Now that trade and professional organizations are entitled to full membership, new opportunities exist for the IALD (represented at Greenbuild by Stefan Graf and Nancy Clanton) and the IESNA to have more input into credits that deal with lighting.

**RESEARCH** Although the number of seminars devoted to lighting were but one, "Daylighting R&D Applied to Hospitals and Offices" offered presentation from three leaders in the field: Daylight specialist G.Z. Brown, director of the Energy Studies in



Buildings Laboratory at the University of Oregon presented on daylighting for hospitals and energy-efficient patient room design; and Stephen Selkowitz and Eleanor Lee from the Lawrence Berkeley National Laboratory discussed the results from the New York Times Building mockup.

**EDUCATION** The conference included five full days of workshops, learning sessions, and tours, with categories as diverse as Life-Cycle Assessment, Livable Communities, Investing in Sustainability, and the Ups and Downs of Marketing Green. Although there was really only one seminar that addressed lighting directly and relatively few of the 300-plus exhibitors were from the lighting community (Lutron, Osram Sylvania, Philips, and Acuity Brands were some of the manufacturers that did attend), the show provided an opportunity for lighting professionals with concern for the environment to meet like-minded peers.

**ADVOCACY** Design practitioners come to Greenbuild to meet colleagues they can collaborate with, to understand the resources available to design and build responsibly, and to learn how to navigate the boundaries between their skills and those of others to produce truly integrated sustainable projects. These practitioners realize they cannot do it alone and that no one single professional discipline has all the tools or answers.

**ORGANIZATIONAL EXCELLENCE** With the introduction of an initiative called "Dynamic Governance," those who attended the Chapter Leadership Forum experienced the future of decision- and policy-making in the USGBC. Dynamic Governance not only hopes to clear the way for better communication and support of new policies throughout the membership, it also provides new incentive for design professionals to become involved at the chapter level, in committees, and as attendees or corporate sponsors.

Whether a seasoned professional or "emerging green builder," attendees come away from Greenbuild with much more than can be packed into a carry-on bag. Greenbuild is bigger than LEED; it is about a future we can only obtain when we share between professions. Greenbuild 2006 will be held in Denver, Colorado, next November. **BRUCE HOSTETTER**

## NYC GREEN BUILDING CHARTER

**IN AN EFFORT TO REDUCE NEW YORK CITY'S ENERGY CONSUMPTION** and the production of pollutants, the city council voted in September 2005 to amend the New York City charter in relation to green building standards for certain capital projects (those paid for in whole or in part by the City). New York now follows other municipalities such as Atlanta, Austin, Boston, Boulder, Chicago, Dallas, Los Angeles, Portland, San Diego, San Francisco, San Jose, and Seattle in adopting Leadership in Energy and Environmental Design (LEED) criteria. New section 224.1 requires compliance

with green building standards and reduction in building energy costs. It features a specific addition pertaining to lighting: As of January 1, 2007, any capital project involving the installation or replacement of lighting systems in any building at an estimated construction cost of \$1 million or more shall be designed and constructed to reduce energy costs by a minimum of 10 percent, as determined by the methodology prescribed in LEED energy and atmosphere Credit 1 or the New York State energy conservation code, whichever is more stringent.

Placing an emphasis on LEED standards, the addition of the new section is the council's response to the impact of building construction on human health and the environment. As written in section 224.1, "The use of green building criteria will substantially reduce the city's electricity consumption, air pollution, and water use, as well as improve occupant health and worker productivity, and encourage market transformation, reducing our dependence on foreign oil and allow new power plants to displace power from less efficient and dirtier existing plants." **A|L**

# GASKINS SERIES

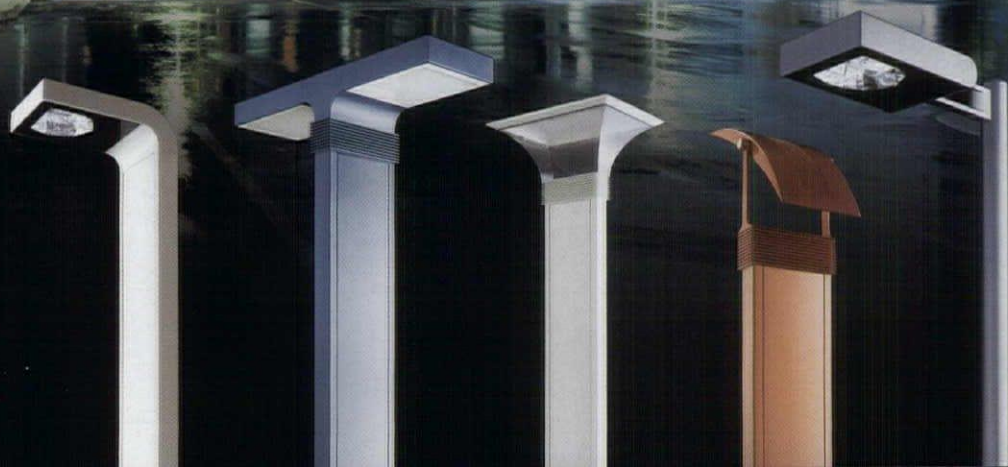
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## IALD CONFERENCE ADDRESSES ENERGY CODES AND STUDENTS

**THE TRAJECTORY OF ENERGY CODES AND MOBILIZATION** of the next generation of lighting designers were dominant themes at the Fifth Annual IALD Education Conference, held October 21 to 22 in Alexandria, Virginia. The conference saw double the attendance of the 2004 event held in Vancouver—with almost 200 attendees representing eight countries. In addition to 12 sessions addressing topics in two tracks (professional development, and new technology and design), activities like the second annual Lighting Cross Talk and the Town Hall Meeting, also held for the second time, encouraged interesting and productive dialogue on a range of lighting-related topics.

The Cross Talk took the form of a two-hour session in which groups of specifiers visited a manufacturer-sponsored table for 30 minutes, for a discussion moderated by the manufacturer, before changing tables. There were 12 sponsored tables.

At the Town Hall meeting, moderated by incoming IALD president Graham Phoenix, conversation focused on concerns about national energy codes—their restrictiveness and the lack of involve-



Students shared their work with professionals during the Portfolio Showcase.

ment by lighting professionals to date in developing the codes. Town Hall attendees called for “evidence-based standards” and “feasible and reasonable” sustainability codes. They also encouraged the organization to speak with “one voice” in advocating for appropriate standards. The IALD Board of Directors meeting on October 23 began to address these issues, with approval of an IALD energy policy as well as the initiation of a business plan for the organization’s Energy Task Force to help it better communicate with energy-policy-making bodies around the world. (See Charles Stone and Julie

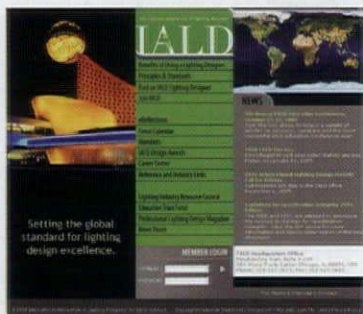
Blankenheim’s Exchange response, page 96.) The association hopes to adopt the plan at its board meeting in January 2006.

This year, it was hard to miss the student presence, with 31 in attendance from the Bartlett School in London, the Hochschule Wismar in Germany, Parsons School of Design in New York City, and Pennsylvania State University. This was “a significantly higher number of students than in the past,” noted Heather Ryndak, marketing manager for the IALD. The IALD Education Trust solicited students to attend and helped defray the cost. The conference actively incorporated the next generation of designers into its two-day agenda, with Penn State students even joining their professor, Dr. Martin Moeck, on a panel about façade engineering and lighting design. This year also saw the Students’ Portfolio Showcase, a new opportunity for students to demonstrate their work for and solicit critiques from attending professionals. Next year’s conference will be held in San Diego, which Ryndak hopes will draw students from West Coast schools. **AJL**

PHOTO COURTESY OF THE IALD

## IALD LAUNCHES NEW WEBSITE

**THE IALD LAUNCHED A NEW WEBSITE (IALD.ORG) DURING ITS 5TH ANNUAL IALD** Education Conference held this October in Alexandria, Virginia. (See “IALD Conference,” above.) The purpose of the redesign was “to provide a more efficient, effective, and streamlined website that is easier to navigate,” says Samantha LaFleur, an associate IALD member, who headed the website taskforce.



While the primary impetus for the new site was aesthetic, it was equally important to redevelop the back end, making it easier to update. The new site includes an expanded search feature: “Find a Lighting Designer,” which allows searching by metropolitan area. The enhanced website, explains LaFleur, “also presents a crisp, contemporary international look and has the capability to showcase design better than the old site.”

Members of the IALD Website Taskforce—Faith Baum, Stefan Graf, and Mary Rushton-Beales—worked with the website redesign team, led by IALD marketing consultant Jan Stone and web developer Michael Jeongco. The site has been well received by members and non-members alike, according to LaFleur, and represents the IALD’s mission to promote quality lighting design. **AJL**

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# A New Angle on Aesthetics

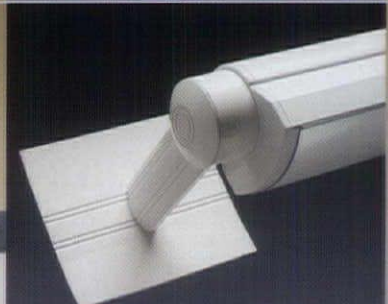
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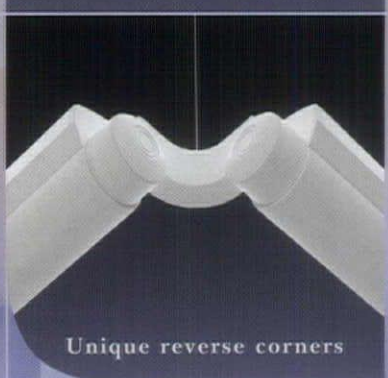
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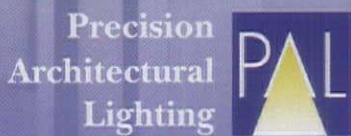
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## ULTRALIGHTS AWARDS ARCHITECTURE STUDENTS

TUCSON-BASED MANUFACTURER ULTRALIGHTS ARCHITECTURAL LIGHTING HAS CREATED a unique program to bring the disciplines of architecture and lighting design closer together—the UltraLights Design Competition. Partnering with the University of Arizona's College of Architecture and Landscape Architecture, and the School of Architecture in Tucson, the inaugural competition was open to fourth-year students. Fifteen entries were received that smartly bridged the gap between architecture and lighting design.

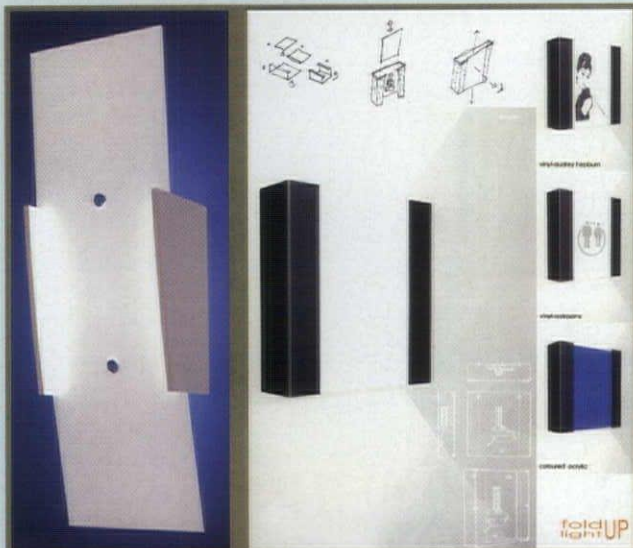
Conceived by UltraLights company president Jim Restin as a means of working with and giving back to the local community, the competition also served to introduce students to the importance of lighting, the manufacturing process, and perhaps inspire students to consider lighting as a career choice. The competition program was described during the students' visit to the UltraLights facility, where they viewed the manufacturing process firsthand.

Program requirements asked students to design an ADA-compliant wall sconce or wall bracket using a compact fluorescent lamp and electronic ballast for corridors, measuring 10-feet wide by 8-feet high, of a high-end contemporary hotel in Los Angeles. Fixtures would be located alternating side to side, 15-feet on center. Budget per fixture had to fall within a range of \$150 to \$250.

A panel of five design, architecture, and lighting professionals judged the qualifying entries and awarded two prizes. Laren Sakota's rectangular-shaped sconce received \$1,500 for first prize. Borja Gomez Martin received \$500 as runner-up.

Going forward, there are no final decisions regarding whether

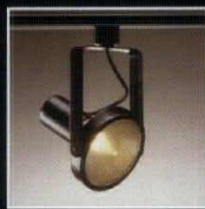
or not the two winning entries will be put into production. Chris Bedwell, in business development at UltraLights, explains: "It was our intent to educate and encourage students about the possibility of lighting design, not to solicit designs to manufacturer." **A|L**



Judges noted Sakota's "understated, yet functional design" (left), while Martin's sconce was recognized for its versatility (right).

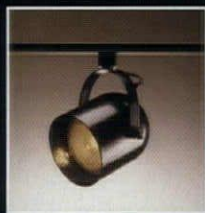


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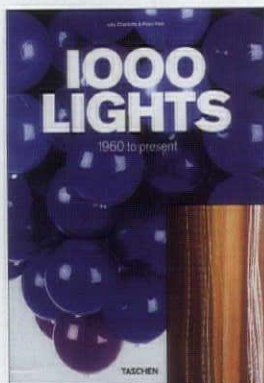
### MADE OF LIGHT: THE ART OF LIGHT AND ARCHITECTURE BIRKHAUSER.CH

Part theoretical essay, part history, part monograph, this compelling volume traces the work and thinking of London-based lighting architects Jonathan Spiers and Mark Major. Divided into 12 sections—source, contrast, surface, color, function, form, space, image, movement,

boundary, scale, and magic—this “exploration of the illuminated world” investigates different relationships between light and architecture. By examining projects from both a historical and contemporary perspective, created in nature and the built environment, Spiers and Major challenge us to reconsider what is light and how we interact with this subtle and elegant medium.

### ULTIMATE LIGHTING DESIGN TENEUES.COM

This monograph presents an overview of the work of Hervé Descottes, founder of the New York design firm L'Observatoire International. His impressive body of work that spans North America, Asia, and Europe, and a decade of collaborations with some of the world's leading architects, produces a catalog that reminds the reader of the importance of the architecture and lighting collaboration. Photographs and drawings accompany discussion of each project. An interview with Descottes provides insight into his working process and approach to light. **AJL**



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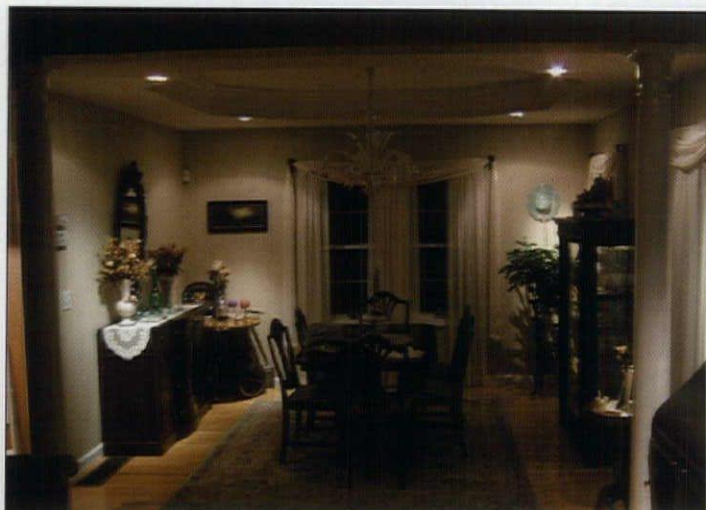
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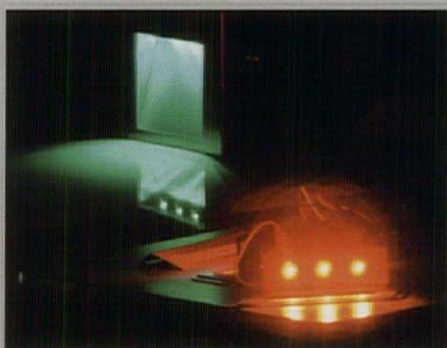


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## LETTER TO THE EDITOR

IN RESPONSE TO THE SEPT/OCT 2005 EXCHANGE COLUMN "THE GREAT DESIGN AWARDS DEBATE":

The Exchange column on design awards in the Sept/Oct issue of A|L raises issues on the self-diminishing value of too many awards programs. The problem is that many of the presentations are worthy of awards as "eye candy," for several reasons.

Many first-rank lighting designers decline to submit their projects for awards not only due to the high cost and time involved, but because they feel they are not being judged by their peers. When the judging rules were established for the Lumen Awards many years ago, it was a requirement that at least one judge visit the finished project and report on how it compared to the presentation—and this was even before there were programs (i.e., Photoshop) that allowed for photographic enhancement, as described by Naomi Miller in her Exchange response.

Secondly, there are now mandatory energy codes limiting energy use as Naomi points out. And even if there

weren't, design professionals should not be giving lip service to saving the planet; we should be practicing restraint in the use of energy. Rarely do presenters give details on how they did more with less, how the lighting design meets the requirements for visual task performance, or in the case of retail installations, increased sales. Steve Margulies, in his design of the Charlotte, North Carolina, Bank of America trading floor (Sept/Oct 2005, page 40) demonstrates that watts per square foot are not as meaningful in energy conservation as watt-hours per square foot, and that controls are an essential component in design.

In her Exchange response, Carrie Knowlton pointed out that "receiving an award can be an excellent marketing opportunity." How true. On the other hand, she remarked that awards "also educate young and future lighting designers, as well as the public, about the value

of lighting design." Here too, the original documentation of the Lumen Award entries required discussion of technical issues, which were emphasized in the awards presentations. That's the proper way to educate.

Ours is a profession practicing the Art and Science of Illumination, yet we don't give enough credit to the goals and accomplishments of the lighting design, other than its transitory visual appearance. There must be a set of criteria established for each award, with judges of the highest reputations, so that the awards are respected by the community, or they will gradually diminish in importance and credibility.

*Willard L. Warren, PE, PC, FIESNA*

WILLARD L. WARREN ASSOCIATES  
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# Designers Revisit Sustainability

ELIZABETH DONOFF

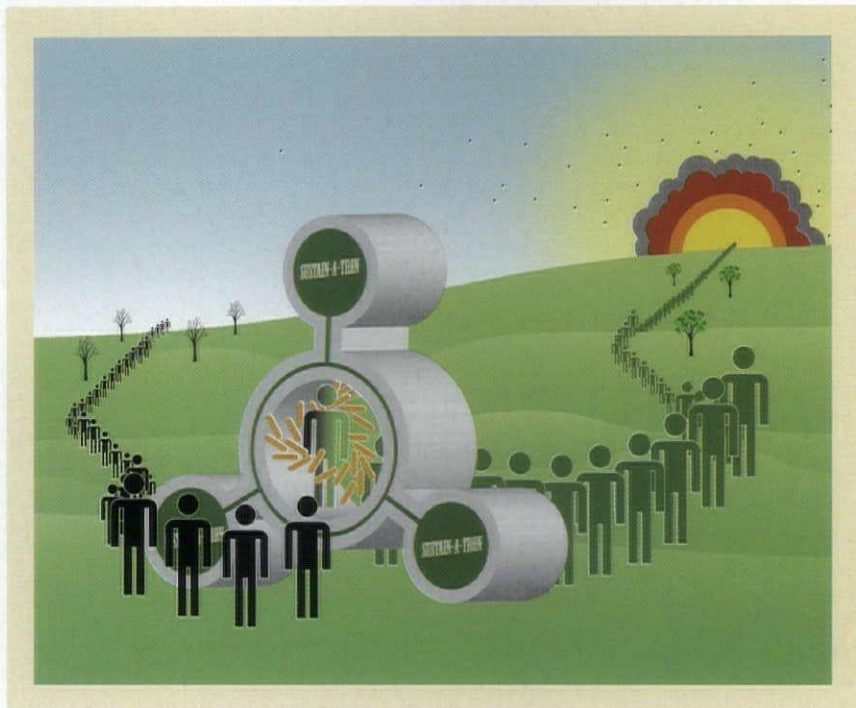
**SUSTAINABILITY. IT'S THE BUZZWORD YOU HEAR IN** every conversation these days, but it is neither a new issue, nor uncomplicated in its focus. From business to politics, "environmentally friendly" is part of today's discourse. One area on which it has had great impact is the design and building industries. In fact, one could argue that it is transforming the current paradigm for architectural and lighting design practice, certainly in the United States, which in the last decade has seen the creation of the U.S. Green Building Council (1993), the American Institute of Architects Resource Guide (1992), and the cradle-to-cradle design and manufacturing process (1995).

AJL spoke with architect Rafael Pelli of Pelli Clark Pelli Architects in New Haven and New York; lighting designers Denise Fong of Seattle-based Candela and New York-based Matthew Tanteri of Matthew Tanteri + Associates; and R. Todd Gabbard, assistant professor at Kansas State University, to survey their opinions on sustainability and its role in design. No matter the discipline practiced—architecture, lighting design, or interior design—several themes emerge. One is a sense of responsibility, both personally and professionally, among those who incorporate sustainability into their own professional practice. Another is that sustainability has to be more than just something one "does" at work. The challenge is to use one's design background to find creative solutions to these pressing issues.

## A NEW BREED OF DESIGNERS?

The fact that there are now, according to the U.S. Green Building Council (USGBC), 21,600 LEED-accredited professionals might suggest so; as recently as 2001, there were just 527. Another indicator is the number of projects currently seeking LEED certification. As of November 2005, the USGBC announced that "more than 390 million square feet and 3,000 projects have registered to become LEED-certified—including nearly 400 projects in just the past four weeks." These numbers are substantial, considering that the LEED process, from registration to certification, takes an average three to five years.

While most would agree that, sustainability is creating a new breed of design-



ers, it is actually not that simple. Architecture and lighting have always addressed the topic; the issue now relates more to the fact that designers today have different tools and technologies available to them, which enable new approaches to an old problem. Moreover, sustainability-conscious codes and rating systems are encouraging, and in some cases demanding a more proactive approach as well. As Rafael Pelli explains, "Good designers have always looked to incorporate relevant issues. What we call sustainable now and think about as a new idea is, in many ways, the oldest of ideas. Historically, an architect had to be very involved in thinking about the positioning of a building, the access to sun, air, and water; those were the essential criteria by which you would evaluate a structure." Denise Fong echoes the point: "Designing sustainable buildings just has to be part of what we consider good design."

As Pelli suggests, what distinguishes good design and architecture is that it involves more than aesthetics. "I think sustainability is restating some basic propositions about architecture, not only in how buildings are built and the technol-

ogy that is incorporated, but in the tools with which we design and analyze alternatives." The ability to engage in sustainable design requires a tremendous amount of knowledge, begging the question: How much does a designer need to know? Matthew Tanteri believes that this new breed of designer contains both generalists and specialists. "People find their place within these two groups based on the way they think," he says. "It's a certain type of person who wants to wrap their arms around the whole thing and stay with the big picture, whereas others like to focus on one thing and optimize that."

It is precisely this interdisciplinary approach to design, knowing who to bring to the project table, that Fong views as the essence of sustainability. "The big benefit to the sustainable design movement is that it is promoting cross-disciplinary work. Prior to this acknowledgement, it was very common for people to work in 'their' areas and communicate as little as possible to other team members, particularly when pressured on time, fee, and schedules." As Tanteri explains, "the ability to facilitate and engage all these parties in the whole building design process, peo-

ple who might not necessarily be used to working together," is critical.

Pelli too acknowledges the importance of collaboration. "The process of designing a building incorporates enormous specialized knowledge in a lot of different fields, and it has made architects much more dependent on input from specialists. As our ability to do more has increased, the ability for any one individual, or firm, to have complete command over all those fields of knowledge is decreased. Sustainable design is trying to reconnect across some of those disciplines in a more complete way."

Fong believes that her interests and experience are broad enough that she can participate as a team member beyond just the realm of lighting. "At the end of the day, we all take responsibility in terms of drawing and documentation for our disciplines. It is the part that comes before the drawings, during charrettes when the big picture is discussed, that you can create synergies. That's when we work in the broader terms of a designer. That some people would choose to be sustainable and others wouldn't—that doesn't make sense make sense to me."

#### SUSTAINABLE EDUCATION

When a designer's sustainable education should commence is up for discussion. Should there be more emphasis on it while in school? The short answer for Fong is yes; it should start in kindergarten, meaning a sustainable education begins before one enters design school. "It has to be something that permeates on a much deeper level than just what you do for a living, so that when you get to design school and focus on the built environment, sustainability becomes just another aspect of the design process." To that end, she argues that students would be better served in their design education if an interdisciplinary connection was made at the studio level, rather than having the odd lecture here and there.

Sustainable design is only prevalent in some design curricula. "There isn't any national criteria right now that is pushing the integration of sustainability into design education," says R. Todd Gabbard. "Yes, LEED is a national standard, but the National Architectural Accrediting Board (NAAB), the sole agency authorized to accredit U.S. professional degree programs in architecture, isn't telling schools sustain-

ability has to be part of the curriculum."

Much the way students and young professionals have played a role in bringing computers and 3D visualization tools into the architectural workplace, Gabbard sees their influence on sustainability. "Students and young professionals have really taken hold of sustainability and educated themselves. Many people who are getting LEED accreditation are quite young."

Pelli believes that schools can do more, but they cannot be looked to as the answer. "A school only has a student for three to five years; that's a really short period of time given that this is a profession that takes decades to understand."

**WHEN IT COMES RIGHT DOWN TO IT OUR WORK IS REALLY ALL ABOUT COMMUNICATION. IF YOU WANT TO CALL SUSTAINABILITY A MOVEMENT, I THINK THE MOVEMENT IS GOING TO MAKE THE WHOLE PRACTICE OF DESIGN MORE INTERESTING AND SATISFYING FOR THE PEOPLE WHO PARTICIPATE IN IT." -DENISE FONG**

#### PRACTICE AND RESEARCH

One extension of the role of education is in the integration of research and professional practice. Unlike other fields where research can exist for the sake of research alone, in architecture and lighting, Gabbard points out, it has to move beyond the lab. "Research is usually applied. With the Solar Decathlon, for instance, there is research, but it's actually in the application that it's made manifest."

Fong tries to integrate research into her own practice. "Showing results and putting it in a format that can be used to further educate our clients about why we are making certain recommendations and what the benefits will be—there's not enough of it here in the United States."

Pelli sites Northern Europe, particularly Sweden, the United Kingdom, France, and Germany, as currently driving advancements in building technologies and products. And while he believes "academia can help foster research, it cannot happen in a purely academic setting." As he sees it, the real issue is that there is no centralized U.S. building research center, and as a result advances in building technologies in the United States are falling behind.

One step toward reclaiming a role in developing advanced building technologies might be to reconsider sustainable building features not as "extras" but "inte-

grals" to the design and construction of structures. "I've spoken with several German architects this past year," Pelli says. "What's interesting is that they don't think about a lot of the things they are doing there as green design, it's just what they are required to do." Pelli hopes that the "green" buildings being constructed in the United States today are more indicative of an "evolving standard of practice." He states, "We are eventually going to be required to do many of the things we are doing on an experimental basis as a means of regular practice. Every firm is going to have to know how to do this or architects won't survive."

#### NEXT STEPS?

Thirty-five years since the establishment of Earth Day, first celebrated on April 22, 1970, there has been significant progress, but there is still much to be done.

"Sustainability is broadening the conversation about what good design is, and that's healthy," says Pelli. These designers suggest that, if sustainability is to be truly effective and successful, it has to become inherent in the processes of our everyday lives. Moreover, it should decrease cost, not increase it. "Anything that raises awareness about the whole notion of sustainability is a good thing," says Fong. "While it's not necessary to have a LEED accreditation to be a sustainable building, it is useful for some people. It's a well-defined methodology that promotes a common understanding."

Today we are at a threshold, where we must come to terms with the technology that has given us great innovations, but at a cost to our resources and climate. The industrial revolution, as Pelli sites, has enabled us to design and construct taller and larger structures that support self-sufficient and self-contained environments, thanks to artificial heating, cooling, and lighting systems. But in turn, our indoor surroundings are completely devoid of any relationship with nature. As we begin to understand the consequences of our overuse, we must decide if we will continue to accept current practices or push to find new solutions. Sustainability may still be considered a choice for some, but unless we reconsider our actions the choice will be made for us.

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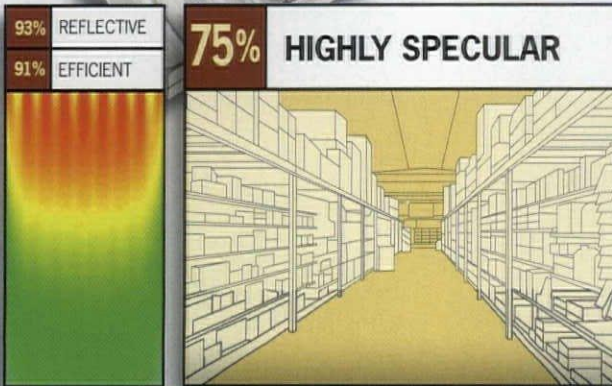
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**THE RENZO PIANO-DESIGNED EXPANSION HAS DONE MORE THAN DOUBLE THE SIZE OF** Atlanta's High Museum of Art. It has added another must-read chapter to the story of daylighting in architecture.

If a variation on a common theme exists in the museums designed by this Pritzker Prize-winning architect, it is in their formal interaction with natural light. Indeed, it is arguably the respective roof detail dedicated to managing sunlight that most distinguishes each building. For the Menil Collection in Houston, Piano's first building in the United States when it opened in 1986, the architect designed "leaf-like" modular components to control the sun. At the Beyeler Foundation in Basel, Switzerland, 900 brise-soleil panels orderly jutting from the roof plane manage harmful rays, while the recently completed Nasher Sculpture Garden in Dallas regulates its daylight with 500,000 diminutive aluminum shells.

The approach at the High, which Piano designed in collaboration with Atlanta-based Lord, Aeck, Sargent Architecture, is even more self-assured. Standing on the roof of the two new buildings—joined to the original Richard Meier-designed facility and to each other via four bridges—one gets a sense of the current momentum around daylighting, not just in Piano's designs, but architecture in general. The effect is bold. One thousand "velas" (sail in Italian, the design team's nickname for the white aluminum shields), standing 7 feet tall, strut confidently toward the downtown Atlanta skyline. Their message is clear: design around daylight is coming into its own both aesthetically and technically.

The proximity of Piano's addition to Meier's space underscores this point. An elegant structure, the 1983 building did not involve a daylighting consultant, and consequently found itself under renovation 20 years later to correct an overabundance of natural light ("Measuring Daylight," Jan/Feb 2004). The new buildings, buoyed by extensive studies and modeling, suggest a matured approach to the incorporation of this resource. Computer tests (using Radiance) and a vast array of models, from cardboard and part-scale to a full-scale mockup constructed at the High's storage facility outside of Atlanta, helped insure the plan worked on all levels, with fine-tuning into the eleventh hour. "We had an interesting condition that revealed itself in the full-scale mockup," says London-based Arfon Davies of Arup Lighting, who worked with Renzo Piano Building Workshop on both the natural and electric lighting design. (Arup Lighting was also behind the rehabilitation of the Meier structure.) On the south-east side, the "transition" panels—where the façade wraps around onto the roof—were allowing direct sunlight into the galleries during the summer; a custom frit pattern was added to the skylight glass associated with these panels to correct the problem. "We know now that 365 days a year there will be no direct light," says Marjorie Harvey, director of architectural planning and design for the High.

More telling than the technical accomplishments of the daylighting system, however, are its aesthetic presence and visual

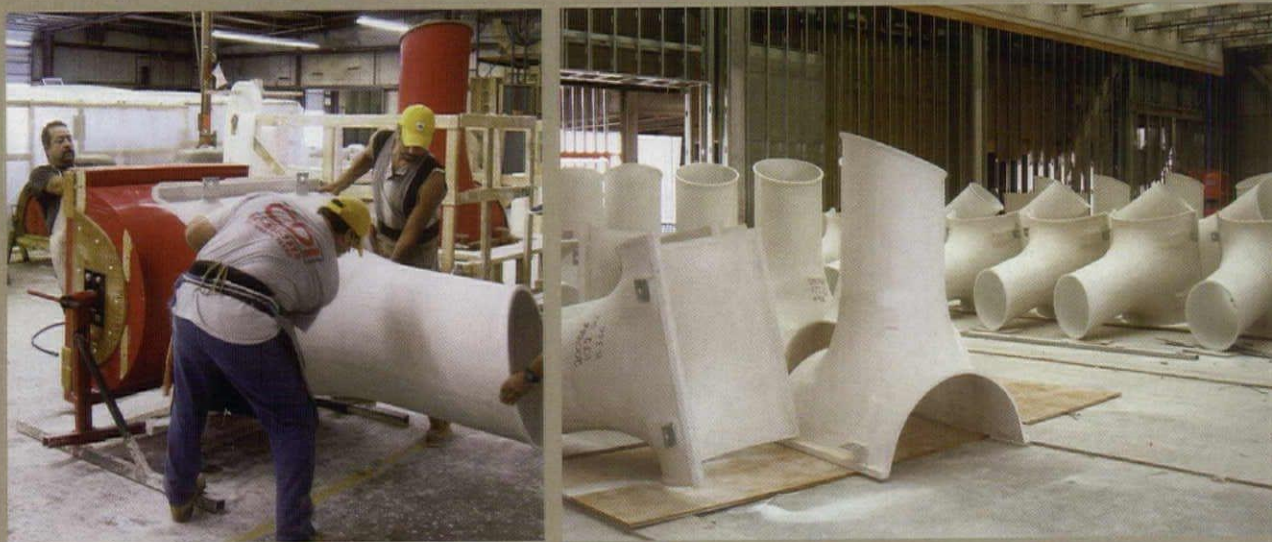


**PROJECT:** High Museum of Art's Wieland Pavilion and Anne Cox Chambers Wing **LOCATION:** Atlanta **ARCHITECT:** Renzo Piano Building Workshop, Genoa, Italy, in collaboration with Lord, Aeck, Sargent Architecture, Atlanta **LIGHTING DESIGNER:** Arup Lighting, London **ENGINEER:** Arup, London and New York **PHOTOGRAPHER:** Floto+Warner, New York, except where noted.

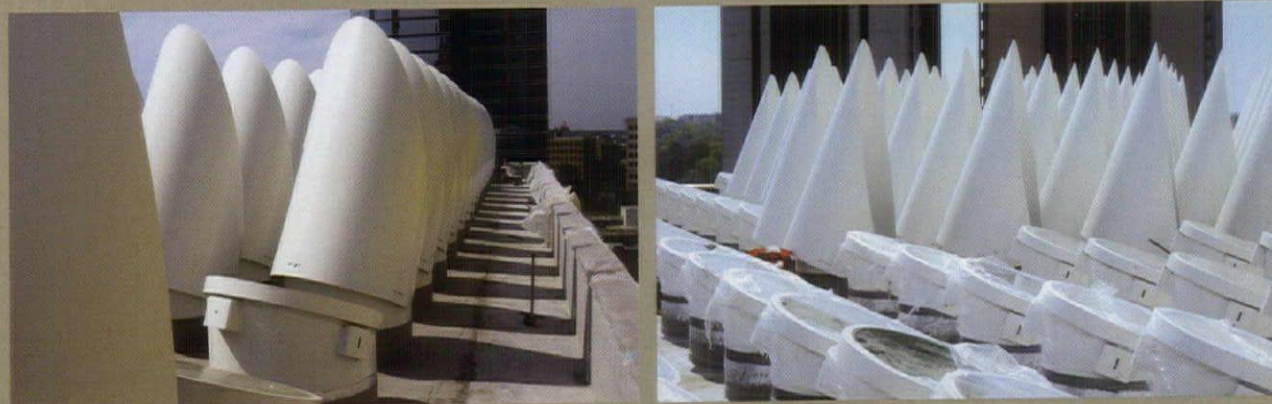
**A total of 1,000 skylights (top)—800 on the Wieland Pavilion and 200 on the smaller Anne Cox Chambers Wing—harvest a diffuse natural light for the third-floor galleries (bottom).**



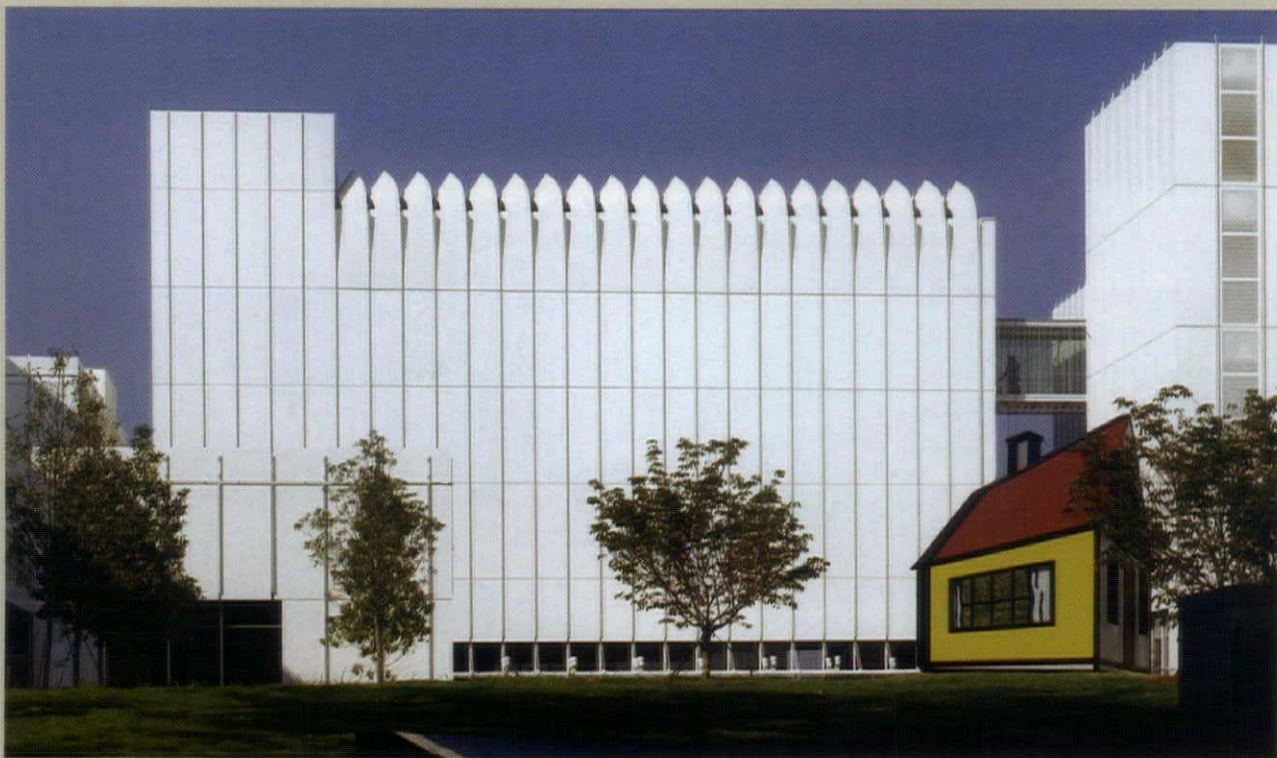
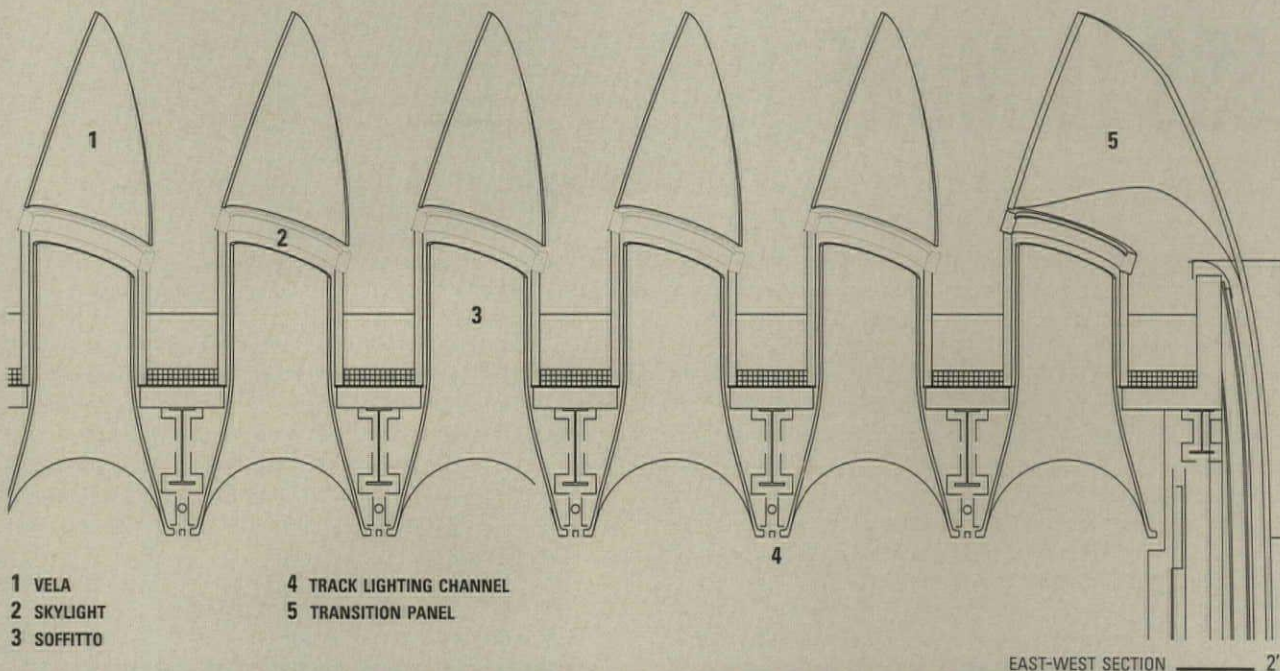
After an extensive renovation to its original building to correct an excess of natural light and sunlight penetration into the galleries, the High Museum was particularly conscious of the daylighting design for its new buildings by Renzo Piano Building Workshop (RPBW). The trouble-shooting process involved an elaborate series of mockups—from a part-scale model at RPBW's office in Italy (far left), to a full-scale mockup at a location outside of Atlanta (second from left). Though often a budgetary luxury, "full-scale mockups are invaluable to understanding the quality and distribution of natural light," says Arfon Davies, an associate with Arup Lighting. On this project, the full-scale investigation helped uncover that the geometry of the "transition panel," which wraps around onto the roof, was allowing direct light into the gallery during the summer months. (An animation, second from right, shows the panels' vulnerability.) A custom frit pattern was applied to the susceptible area of the skylight glazing (far right).



The daylighting system, which is completely passive, is comprised of three elements: The "soffitto," a tubular unit constructed of glass-fiber-reinforced gypsum, diffuses and directs light from the skylight (in fabrication, above). The skylight, cut at an angle with the lowest point facing north, features low-iron glass with a low-E coating and a laminated interlayer. The white aluminum "velas," oriented due north 26 degrees off the building's axis, are the final piece (shown in construction, below). A combination of the northern orientation and reflected sunlight, bounced into the galleries off the white surface of the vela in front, helps capture the appropriate amount of light from Atlanta's sunny climate. Inside, track lighting (an iGuzzini fixture designed by Piano) supplements the natural light. The track is on two circuits: one controlled relative to the amount of daylight, and the other independently to meet the requirements of the artwork. Generally, however, the ambient illumination is generated by the sun. "It is a certain quality of light that is not often used in American museums, and a good demonstration of how natural light can be applied," says Davies. "It will encourage discussion, I think."



PHOTOS: THIS PAGE COURTESY OF ARUP LIGHTING; PHOTO FACING PAGE BY JONAHAN HILLIER, DRAWING COURTESY OF RPBW/LAS



More telling than the technical accomplishments of the day-lighting system, however, are its aesthetic presence and visual incorporation into the architecture. "The natural lighting design process was a key driver in the geometry and shape of the roof," says Davies. "It is a true synergy between architecture and lighting design." Indeed, subdued in most regards, the new buildings come to life on their upper floors, where the soft north light morphs with the passage of clouds and time. The ceiling, dimpled with 1,000 skylights, provides a surface as interesting as the vertical canvases of, among others, Ellsworth Kelly and Gerhard Richter. "We certainly don't want to say that the architecture is more important than the art,"

says architect Elisabetta Trezzani, of RPBW, modestly. But it certainly deserves a place in the collection.

Indeed, if there is one criticism of the space, it is that visitors cannot visually access the roof and the sculptural form of the velas. When something as simple as a skylight becomes a striking architectural detail (both inside and out), it deserves recognition as art in its own right. **EMILIE SOMMERHOFF**

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# LESS IS MORE

A MINIMALIST APPROACH TO LIGHT SAVES ENERGY.

**SUSTAINABILITY AS A WORD, AT LEAST IN ITS ARCHITECTURAL USAGE, TENDS TO BE CON-**strued in terms of the preservation of natural resources, such as a project's energy efficiency or its "low impact" on the natural environment. As important as this is, there is an often-overlooked facet to the concept that is no less essential—a project's preservation, or, more aptly, improvement of the built environment. When Lick-Wilmerding, a private San Franciscan high school with an emphasis on architecture, design, and technical arts, held an invited competition to find an architect for a much-needed campus expansion in 2000, it was Pfau Architecture's innovative planning solutions, as well as the firm's dedication to the more strictly green aspects of sustainability, that garnered it the commission.

Lick (the school's abbreviated name) had outgrown its facilities and needed a modern shop, expanded cafeteria, and additional seating for its performance hall. The difficulty was finding a place to put new built space on the already cramped campus. A stretch of lawn was available, bordered on three sides by the existing theater and classroom buildings, and the open eastern edge of that space, which abutted highway I-280. But building on either the lawn or eastern edge threatened to block an expansive view of the hills to the east that was valuable to Lick's students and the quality of life on campus. While the other four competing firms did just that, Pfau came up with the solution of digging beneath the lawn and inserting a submerged shop building that

not only preserved campus views, but actually improved visual and physical connectivity on campus.

At approximately 17,000 square feet, the new building houses wood, metal, glass, and electronic shops, as well as a multi-purpose room, Mac lab, server space, and two conference rooms arranged around a central open court known as the Workyard. Stairs and an elevator connect it to the new, 6,000-square-foot cafeteria, also by Pfau, which rises above the sunken building's western extremity. The architects increased the theater capacity from 300 to 428 by expanding the seating area within the existing building footprint.

## EFFICIENCY AND LIGHTING

According to Michael Webb of Revolver Design, the lighting firm on the project, "As of a few years ago, school lighting was pretty minimal—you could throw in a few fluorescent fixtures and call it a day." But given Lick's design-oriented curriculum and its progressive educational philosophy, the architects wanted to provide a more inspired lighting scheme. "We tried to give them very energy-efficient lighting as well as a sense of drama," says Webb. Part of achieving the design was making effective use of natural light. "The architects were very good at bringing daylight into the spaces, which took a lot of the burden off of the electric lighting," continues Webb.



Inventive solutions help to create architectural spaces, as well as modulate daylight and electric light, at for the progressive San Franciscan Lick-Wilmerding High School. By submerging the new shop building (facing page, bottom), the architects were able to create a landscape of contrasting surfaces, from the sodded roof that provides an outdoor gathering space for students (inset), to the glass shop's signature feature—900 square feet of pho-

All exposed walls on the shop and cafeteria buildings are clad in double-glazed, low-E glass, which is both highly energy efficient and highly transparent. "The challenge," says Dwight Long, Pfau principal in charge of the project, "was how to control the natural light so that glare didn't become a problem." While this was not difficult in the shops, which predominantly admit passive light through the submerged Workyard, the east-facing cafeteria had to handle direct light all morning. To mitigate this, the architects placed a series of louvers over the curtain wall. In addition to softening direct light, the louvers also reduce heat gain on the structure and introduce a dynamic light pattern on the interior.

The approach to electric lighting, though minimal with a view toward energy efficiency, was similarly dynamic. "We applied different approaches to different spaces," says Webb. The shop was outfitted with industrial 8-foot fluorescent fixtures, each featuring six 32W T8 lamps. These were installed to direct light downward, though perforated metal reflectors provide some upward distribution as well.

The fixtures were also painted silver to complement the shop's industrial aesthetic. This character was continued in the cafeteria—all interior spaces of the new construction feature exposed steel structural members and mechanical systems—although the fixtures there were chosen to introduce more of a residential feel. Uplights that feature 250W metal halide improved-color lamps produce a warm glow on the cafeteria's wood-paneled ceiling. To introduce a decorative element to the space that adhered to the modernist "less-is-more" educational philosophy of Lick, pendants with 60W halogen lamps were hung over the dining area.

## SURFACE AND SYMBOL

All of the shop's roofs, except for one, were sodded or paved, to maintain usable open space, as well as to provide extra insulation and cut down on temperature fluctuation within the building. The exception is the roof of the glass shop, which hosts 900 square feet of photovoltaic panels. "We set the solar panels symbolically at the center of campus to get the students to appreciate the benefits of solar energy," says Long. And indeed, the panels are more of a symbolic gesture than a complete energy solution: On a good day, they produce enough energy to power the school's computer lab—about 2 to 3 percent of the overall energy usage. But the architects gave as much weight to the gesture as they could, going so far

as to install a read-out display in the cafeteria that keeps students updated on how much energy the panels are generating.

The solar panels are only one part of a larger alternative energy program that Pfau Architecture is developing for Lick. At the start of

2006, the firm will begin the approval process for a series of windmills to be sited at the eastern edge of the campus, a process that the architects expect to take nine months to complete. They had also been aiming for a LEED certification for the project, but during the documents phase, the school decided not to pursue it owing to the cost of consultant work associated with the certification process. Nonetheless, Pfau Architecture has put Lick well on its way, with an efficiently and amply lit building that has done its part in sustaining the heart of the school. **AARON SEWARD**



voltaic panels (above). The façade of the double-height cafeteria (facing page) is articulated with a series of louvers placed over the curtain wall. The louvers, constructed of ipé, a sustainable Brazilian wood, reduce heat gain on the structure and introduce a dynamic light pattern on the interior. Behind the shop building sits the theater, also clad in wood, and beyond, the hills of San Francisco.







Minimal electric sources supplement the school's interior spaces, which are illuminated primarily with daylight. The shop is outfitted with industrial fluorescent fixtures (facing page, top), and metal halide uplights and halogen pendants round out the cafeteria (top). By submerging the new shop building and creating an exterior space referred to as the Workyard, Pfau Architecture allowed daylight to permeate these work areas, which otherwise would not have benefited from this type of illumination (facing page, bottom). The next phase of the school's energy-savings master plan includes a series of windmills to be sited on the eastern edge of the campus (above).

## DETAILS

**PROJECT** Lick-Wilmerding High School Technology and Design Center, San Francisco

**ARCHITECT** Pfau Architecture, San Francisco

**LIGHTING DESIGNER** Revolver Design, Emeryville, California

**PHOTOGRAPHER** Tim Griffith, Tim Griffith Photography, San Francisco

**TOTAL FLOOR AREA** 35,000 square feet

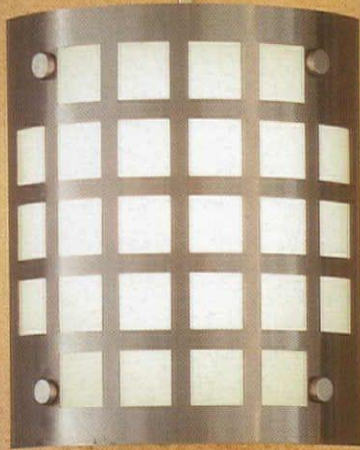
### MANUFACTURERS

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BK  
Eco Énergies  
Elliptipar  
Lightolier  
Resolute  
Stonco  
Williams Industrial

### APPLICATIONS

Polemount parking-lot lights and exterior recessed wall luminaires  
Exterior and interior downlights  
Shop building solar panels  
Café truss lights  
Compact fluorescents, and shop track lighting  
Pendant in café  
Task lighting integrated into shop equipment hoods  
Interior ambient direct-indirect fluorescent lighting in shop

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## NEW PARK WEST, CHARLOTTE, NORTH CAROLINA

**CHALLENGE** When architect/developer Anderson Pearson formed his one-person firm, his inaugural project was the New Park West condominiums, completed in March 2005. Sited on a corner lot, facing a busy street on one side and a quiet cul-de-sac on the other, the project presented many challenges. Among them was working with city officials and neighborhood groups to rezone the lot, from single-family to multi-family use, a process that determined much of the project's program: The units had to be family-oriented, have no less than two bedrooms each, and provide off-street parking. Pearson also hoped to create a memorable entrance to the neighborhood and make the development appear uncrowded on its half-acre lot.

**ARCHITECTURAL AND LIGHTING SOLUTION** The seven-unit project is comprised of two buildings connected by a one-story porte-cochere that spans the entry drive. Each three-story townhouse offers a street-facing garden, a tandem garage on the first floor, living and kitchen areas on the second, and bedrooms on the third.

The rest of the neighborhood had previously been developed with condominiums; townhouses directly across the street and stacked flats fill out the rest of the cul-de-sac. "I tried to pick up on some of their elements—the cedar siding, the stain—without copying them," says Pearson. "That also introduced a visual continuity that was lacking on the street."

Perhaps the most striking visual element of New Park West is the stair tower that anchors the corner condo—the single three-bedroom unit in the project. Crowned with a glazed read-

ing loft, the tower features a series of projecting fins that frame slotted windows. Day or night, the tower serves as a recognizable landmark, functioning as what Pearson calls a neighborhood "porch light."

Lighting plays an important role in the overall design of the exterior. Round wall sconces accent the busy street façade and provide illumination, modulating the building's massing at night, while low-voltage halogen recessed path lights mark unit entrances. This theme is continued by uplighting the porte-cochere and the trees in the entry gardens. All of the exterior lighting is placed on photocells to illuminate the site at night and provide a sense of security.

Careful detailing is not exclusive to the exterior. Pearson applied a standardized arsenal of luminaires on the interior, including recessed canlights in the ceilings and pendants over the open-kitchen bar tops, which combine economy with elegant design. Concealed fluorescent striplights placed above the kitchen cabinets create a warm glow on the ceilings. The same luminaires are also looped behind the half-bath mirror, causing that reflective surface to seemingly float.

Charlotte is currently experiencing a condo boom, making it an easy field for developers. Nonetheless, New Park West stands as a testament to the use of imaginative design in speculative projects. Not only were all the units sold under contract before construction, but the dramatic lighting and unique architectural elements have made the townhouses favorites among tenants and the neighborhood as a whole. **AARON SEWARD**

### DETAILS

**PROJECT** | New Park West Condominiums, Charlotte, North Carolina

**DESIGN TEAM** | Anderson Pearson Architecture, Charlotte, North Carolina (architecture and lighting)

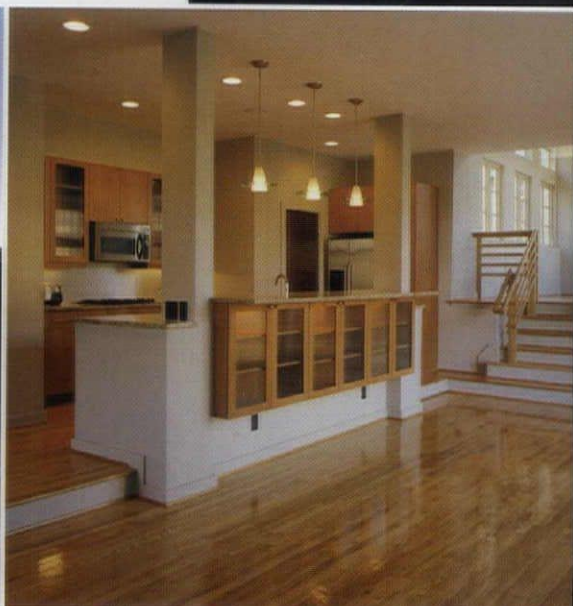
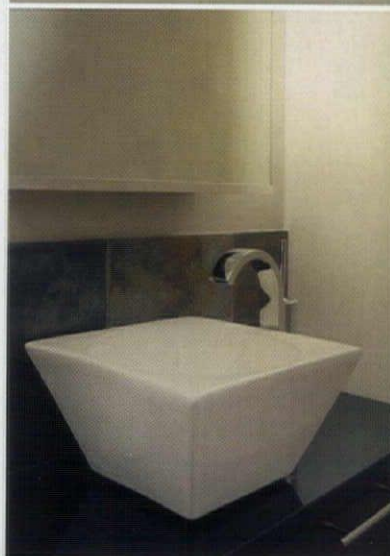
**PHOTOGRAPHER** | Carolina Photo Group, Charlotte, North Carolina

**TOTAL SQUARE FOOTAGE** | 14,000

**LIGHTING COST** | \$1.72 per square foot

**WATTS** | .55 watts per square foot

**MANUFACTURERS** | Cooper, Intermatic, LBL Lighting, Lumiere, Lumark, Metalux, Progress Lighting



## SOLAR DECATHLON, WASHINGTON

## DETAILS

PROJECT | 2005 Solar Decathlon

COMPETITION WEBSITE |  
solardecathlon.orgPHOTOGRAPHER | Stefano Paltera /  
Solar Decathlon (except where noted)

## UNIVERSITY TEAMS |

CALIFORNIA POLYTECHNIC UNIVERSITY  
solardecathlon.calpoly.eduCANADIAN SOLAR: CONCORDIA UNIVER-  
SITY AND UNIVERSITE DE MONTREAL  
canadiansolar.orgCORNELL UNIVERSITY  
cusd.cornell.eduCROWDER COLLEGE  
crowder.edu/solar/2005FLORIDA INTERNATIONAL UNIVERSITY  
solar.fiu.eduNEW YORK INSTITUTE OF TECHNOLOGY  
iris.nyit.edu/solardecathlonPITTSBURGH SYNERGY: CARNEGIE MEL-  
LON, UNIVERSITY OF PITTSBURGH, AND  
THE ART INSTITUTE OF PITTSBURGH  
pittsburghsynergy.orgRHODE ISLAND SCHOOL OF DESIGN  
solar.risd.eduUNIVERSIDAD POLITECNICA DE MADRID  
solardecathlon.upm.esUNIVERSITY OF COLORADO  
solar.colorado.eduUNIVERSITY OF MARYLAND  
solarhouse.umd.eduUMASS DARTMOUTH  
umassd.edu/solarUNIVERSITY OF MICHIGAN  
misohouse.orgUNIVERSITY OF MISSOURI-ROLLA  
AND ROLLA TECHNICAL INSTITUTE  
solarhouse.umar.eduUNIVERSIDAD DE PUERTO RICO  
solar.uprm.eduTHE UNIVERSITY OF TEXAS AT AUSTIN  
utsolard.orgVIRGINIA POLYTECHNIC INSTITUTE  
AND STATE UNIVERSITY  
vtsolar.arch.vt.eduWASHINGTON STATE UNIVERSITY  
arch.wsu.edu/solardec

**CHALLENGE** Sponsored by the United States Department of Energy as part of an effort to more completely integrate sustainable energy into mainstream society, the second Solar Decathlon, held October 7 to 15, 2005, pitted 18 student teams against one another in a battle on the Mall. Like its Olympic equivalent, the Decathlon included 10 "events," ranging from architectural merit to hot water generation. In the lighting competition, teams were required to handle both quantitative (measured) and qualitative (judged) criteria, which together comprised 100 points out of 1,100 available in the competition.

**ARCHITECTURAL AND LIGHTING SOLUTION** The Latin roots of the word "competition" mean "strive together," and the Solar Decathlon exemplifies that, with the communal goal of exploring residential building options that can help reduce national dependence on fossil fuels. Currently, residential buildings account for 21 percent of the energy consumed in the United States.

This event demonstrated the beauty of efficiency—not just in energy consumption, but also in the layout of living spaces that ranged from 650 to 800 square feet. In their designs, teams incorporated a role for the occupant, fostering a more active relationship between user and dwelling that allowed for continual optimization of light and heat conditions. Although full automation might have been technologically achievable, there was a philosophical notion that an intimate relationship with the building would lead to more ownership for residents. Emphasizing interactivity, the Cal-Poly team called its design "switch-rich"; it took first place in the quantitative lighting competition, and third place overall. Judges noted the house for its fully integrated design and "livability."

Teams that succeeded in the lighting category featured natural and electric lighting solutions that emerged organically from the architecture. Daylighting schemes tended to rely on more

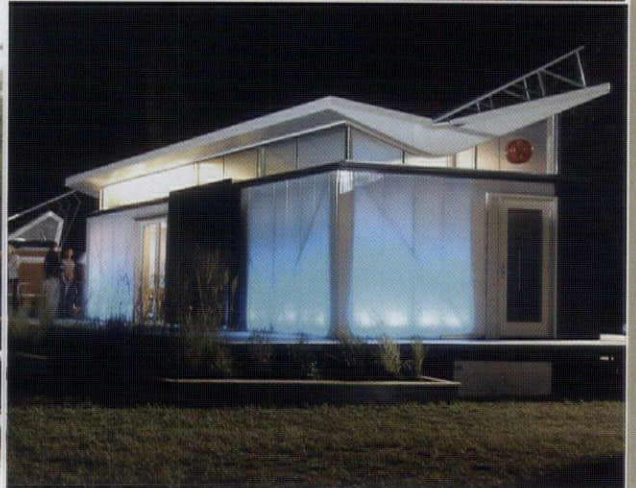
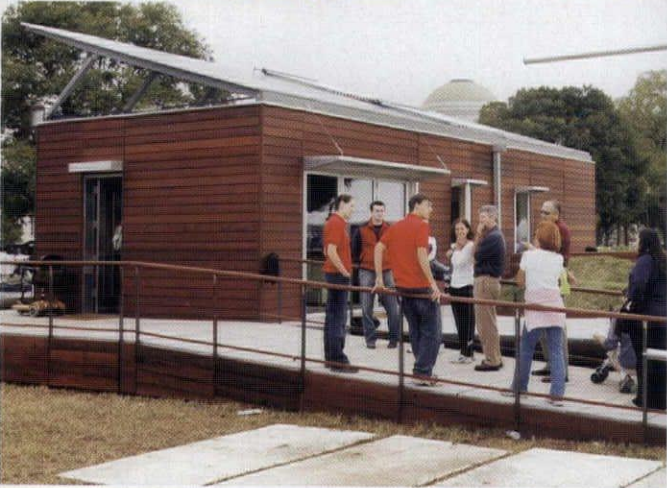
established techniques of solar orientation and shielding; however, there were several attempts toward innovation. In order to allow light penetration without excessive glare and solar gain, some teams explored translucent panels as an option. The University of Colorado team, first place overall winner, as well as Virginia Tech, winner in the Architecture and Dwelling contests, explored a low-transmission Polygal/Aerogel sandwich for their clerestories.

With electric lighting, innovation came in the form of fluorescent and LED sources. "It's one thing to put fluorescent in a box and say, 'Wow, this looks just like an office,'" says Gary Steffy, a Michigan-based lighting designer who served as one of three lighting judges. "It's another thing to make it so you don't notice." Cal-Poly satisfied this goal through its use of uplighting, notably with a T5HO Cerra Wall fixture from Peerlite.

The Virginia Tech team also received critical acclaim from the judges, winning the qualitative lighting competition. Its "clean and integrated" design included Lithonia low-profile strip fluorescents to illuminate the roof profile, and sandwiching LEDs between translucent walls, which created a nighttime glow both inside and outside the house. Many teams, including the two mentioned above, were indebted to the generosity of manufacturers, who donated products and materials.

Although by its nature the Decathlon is experimental, the hope is that the techniques developed will have a broader reach. "I think there's mass interest," says Bill Sykes, vice president for programming at the Do It Yourself network, which served as one of the primary event sponsors. "People want to believe that solar, in the right parts of the country, can be practical and cost effective." **ZACHARY R. HEINEMAN**

*Zachary R. Heineman is an employee of Public Architecture, a San Francisco-based nonprofit dedicated to improving the built environment.*



Open to the public, the Solar Decathlon on the National Mall in Washington was visited by 25,000 people during October (facing page). One pedagogical aim of the Decathlon is to integrate the architecture and engineering disciplines, to familiarize each with the considerations of the other. "Because it was a design-build process, architecture and engineering students worked together the whole time," says Marc Miller, a student from the Cornell team, whose house (above left) received second place overall honors. The University of Colorado's house (top) took first place overall honors. Virginia Tech's house stands illuminated on the Mall (above right). Visitors gather in front of the Cal-Poly house (right).



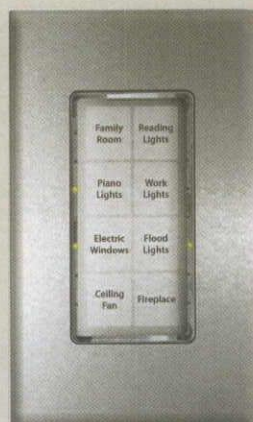
## HOME IS WHERE THE LIGHT IS

**ALEXANDER LERVIK | BRIGHTHANDLE | BRIGHTHANDLE.COM**

Using colored light as a communication tool, the fiber optic track encased within Brighthandle's acrylic surface is green in the unlocked position. When locked, the surface changes to red. Battery operated or supplied electricity through wiring in the door, the handle can be programmed to coordinate with emergency functions, switching colors when an alarm has been activated to help designate building evacuation routes. **CIRCLE 125**

**COLORADO VNET | TP1-1D TOUCHPAD | COLORADOVNET.COM**

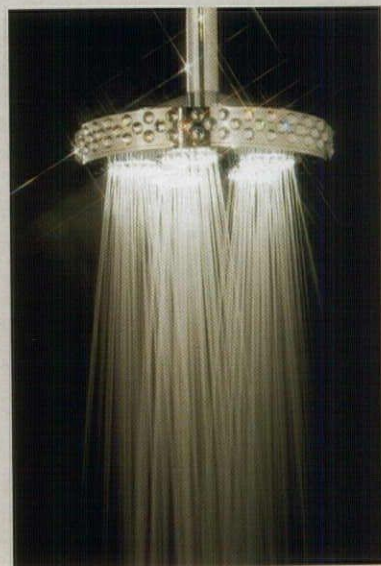
A cross between a touchscreen and a keypad, the TP1-1D is designed to interact with Colorado vNet's home automation system. Reacting to commands based on the length of time that the user presses the button, the touchpad can be programmed to switch and dim lights; control drapes and fans; or activate a pre-programmed lighting scheme. A removable acrylic faceplate allows for customization of backgrounds and buttons. **CIRCLE 126**

**LUZIFER | ICON | LUZIFERLAMPS.COM**

Consisting of three sheets of material, two of metal and one of natural wood veneer, the Burkhard Dämmer-designed Icon offers two perspectives—a slim view from the side and a full silhouette from the front. Almost 8 inches in diameter and just over 1 foot tall, the fixture is lamped with a 60W E27 incandescent source. **CIRCLE 128**

**ONDINE | KRYSTAL ELS | ONDINESHOWERS.COM**

A combination of water, colored light, and Swarovski crystals create the Krystal Electronic Light Shower. The 12-inch-diameter showerhead, with its crystal-lined perimeter, contains 270 no-clog precision-engineered spray channels individually illuminated by fiber optics. Colored light rotates from blue to green to yellow to white, and users can stop the rotation at the color of their choice. **CIRCLE 127**



**ZIA-PRIVEN DESIGN | WALLPAPER COLLECTION | ZIAPRIVEN.COM**

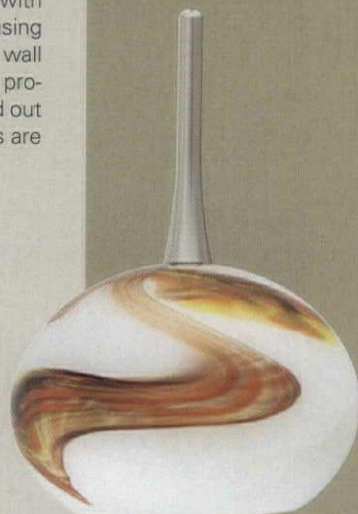
Dauphine, Malabar, and Mimosa—a trio of luminaires in the Wallpaper Collection, a series of 12 vintage-inspired pendants and table lamps—have hand-printed wallpaper drum or cylinder shades, the largest of which has a diameter of 18 inches and is 9 inches tall. Available with a polished nickel or walnut stem, the fixtures feature shades in 10 patterns. CIRCLE 129

**PROGRESS LIGHTING | HOME THEATER PACKAGE | PROGRESSLIGHTING.COM**

This customizable theater package comes with controls, fixtures, and trims. A variety of housing choices are available, including step lights, wall sconces, and recessed lighting that can be programmed at the touch of a button to fade in and out at the start and end of a film. Control functions are supplied by Lutron. CIRCLE 130

**LBL LIGHTING | NEPTUNE 1 | LBLLIGHTING.COM**

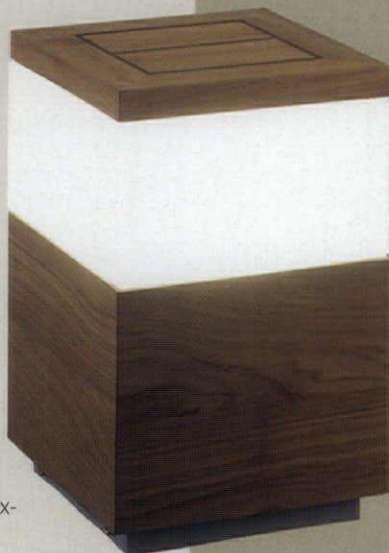
Available with single-circuit monorail, two-circuit rail, and monopoint mounting options, the Neptune 1 mini pendant consists of a 5-inch-wide blown-glass sphere and satin nickel or bronze hardware. The shade houses a 35W lamp and is offered in amber, blue, opal (shown), and red. CIRCLE 131

**SEASCAPE LAMPS | PAVLO | SEASCAPELAMPS.COM**

The 29-inch-tall Pavlo table lamp has a solid oak base (shown with an ebony finish) and brushed aluminum hardware. The cotton-blend fabric shade, which measures 16 inches in diameter, diffuses a three-way 150W lamp. All luminaires are made to order and custom finishes are available. CIRCLE 132

**DELTA LIGHT | QUEEN TEAK | DELTALIGHT.COM**

This outdoor luminaire is just under 11 inches tall and just over 7 inches square. Its polycarbonate diffuser conceals a fluorescent lamp, whose power is provided through a connection in the ground. The fixture is available in teak or metal, and several sizes. CIRCLE 133



**D'AC | OLIVIA | DACLIGHTING.COM**

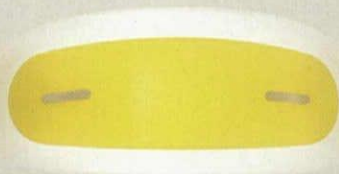
This disc-shaped wall sconce consists of sandblasted glass, an inset convex mirror, and aluminum fittings. The 12-inch-diameter glass shade extends beyond the light source, capturing and diffusing the light. The luminaire takes two 60W halogen lamps and extends approximately 3 inches from the wall. **CIRCLE 134**

**BOYD LIGHTING | LONDON PENDANT | BOYDLIGHTING.COM**

This pendant, inspired by London's Savoy Hotel, has a white linen shade nestled inside a black silk shade and is suspended from a hexagonal tapered stem offered in polished nickel, satin nickel (shown), antique Boyd brass, blackened brass, or gossamer gold. The London pendant is available in four sizes. **CIRCLE 135**

**LEUCOS | FOLD | LEUCOS.COM**

The curved satin glass of Fold, available in white, red, yellow, and blue, is set in a chrome or titanium frame. At just over 18 1/2 inches long and 7 1/2 inches high, the luminaire is also offered in pendant and ceiling-mounted versions, as well as with a perforated chrome front panel. **CIRCLE 136**

**RALPH REDDIG DESIGN | HORIZONTAL SLIDER LONG | REDDIGDESIGN.COM**

The plastic guides on the front of this fixture are horizontally adjustable, allowing for variety in the quality and intensity of light. The 35-inch-wide by 14-inch-high aluminum frame holds a cast acrylic diffuser lens, concealing three incandescent lamps. **CIRCLE 137**

**MODISS | LOE | MODISS.COM**

The Loe floor lamp is actually suspended from the ceiling and consists of a 14-inch-diameter fabric shade and a matte aluminum base. The adjustable shade can be used to create general illumination as well as task lighting, and is available in both white mesh, and white, brown, or yellow raffia. **CIRCLE 138**

**ROTALIANA | EYEBALL | ROTALIANA.IT**

EyeBall, offered in both pendant and table versions, is made of a 12 1/2-inch-diameter externally etched, hand-blown opaline glass diffuser and an injection-molded, polycarbonate diffuser support, available in translucent (shown), blue, and orange. **CIRCLE 139**







## Gallery Collection

ing colour and unique form bring to life the Bolero and Belzebu chandeliers from the Gallery Collection. The as taken the classical craft of Murano glassmaking and infused it with subtle contemporary profiles. Available in 3 ed, white or clear and with a complementary wall lamp. The Belzebu chandelier makes an impressive statement by grand size and bold colour. At over 50 inches in width, the black glass adds a grandeur that is only possible with a piece such as this. Eurofase, your premier source for architectural lighting.

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# Adding Up

JESSICA N. JOHNSON

## CALCULATIONS PROVIDE INTERPRETIVE AND CONCRETE DATA

**CALCULATIONS: THE WORD ALONE HAS A REPUTATION OF BEING BOTH UNINTERESTING** and intimidating. However, lighting and its related calculations are a necessary component in any successful project, though more commonly a necessity in non-residential applications.

Generally calculations can be considered in two tiers, primary calculations (what is needed for the specific project) and secondary (what is needed to meet industry standards such as ASHRAE 90.1 and LEED). Additionally, calculations quantify light in two different ways: illuminance, ambient light measured in footcandles and watts; and luminance, the visual character of a space.

### 1. THE COMPLEXITY OF THE SPACE DETERMINES THE TYPE OF CALCULATION.

There are several project variables that dictate the quantity and detail of the calculations necessary. The calculations required to light a fairly simple room differ greatly from those required in more complicated spaces. Cambridge-based Lam Partners principal Keith Yancey explains, "If it is a very basic geometry and simple task, we are usually just doing illumination calculations." Illuminance is the result of light reaching a surface directly and by interreflections from surrounding surfaces. There are two types of illumination calculations: The first type is used to determine how much light reaches a surface point directly from a luminous surface, and the second type is used to determine how much light reaches the same surface or point from a secondary source of light, which is, luminous by reflection.

However, the complexity of the space is directly proportional to the type and quantity of calculations needed. "When you are talking about public spaces or the exteriors of buildings like façade situations," Jeff Gerwing of Detroit-based SmithGroup notes, "then sometimes the numbers become a little less important in terms of illuminance levels. At some point, it becomes more about the perception of a space than what the numbers say." However, it is always imperative that there is enough ambient and task light in the space.

Finding the appropriate balance between the qualitative and quantitative analysis is often a challenge. Vikram Sami of Lord Aeck Sargent Architecture in Atlanta offers an example of how

these two methods work together. "If you have 50 footcandles on a surface, usually you would be okay," he explains. "But if you have a surface next to it that is 1,000 footcandles, 50 footcandles appears really dark because the eye adjusts physiologically to the brightest spot in the room." It cannot be assumed that the complete solution is solved once the quantitative analysis is calculated.

Sami continues, "Numbers are not the whole answer. You need to go further and analyze them experientially."

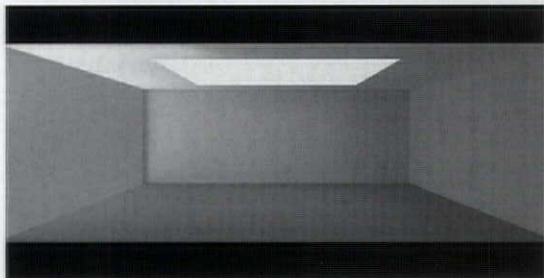
**2. COMPUTER TECHNOLOGY AIDS THE CALCULATION PROCESS.** For most designers, including Jim Nicolow, also with Lord Aeck Sargent, developing a project design happens intuitively initially, and "then we iteratively ask the questions: Is it working? How is it working?"

While hand calculations are fairly straightforward for spaces with simple geometry and tasks, they are rarely used today. Given the prevalence of computers, most designers work with spreadsheet programs and lighting calculation software, including: AGI-Light, Lumen Micro, Lightscape, SketchUp, and Radiance, to name but a few.

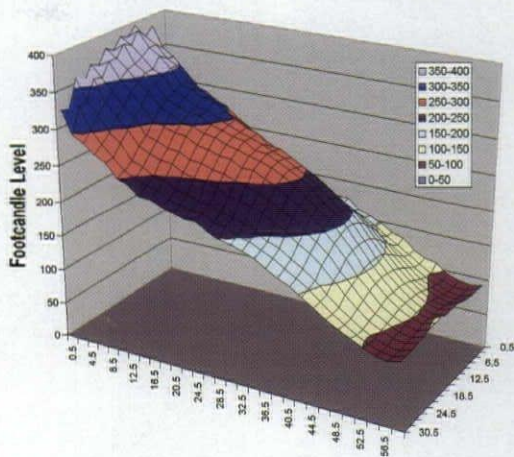
Some computer calculation programs are formulated to perform illuminance calculations in which the main outcome is the required footcandle numbers and/or the watts-per-square-foot information. This is important, especially from an energy code perspective, but there is often a need to know more about the overall visual character of the space. This is where luminance calculations come into play. Luminance describes how light makes objects and surfaces appear, and includes the determination of contrast and luminance ratios.

For luminance calculations, Gerwing finds it imperative to use 3D lighting analysis tools. "Not only can you get the technical information, but you can also get the actual image of what the space is going to look like. It becomes more about where the light is being placed and less about just a hard number."

Of course, no program is without limitations. If designers are considering spaces with backlit elements, even 3D programs aren't always sufficient. For specific issues like this, both Yancey and Gerwing stress the importance of building physical, mockups, which have particular importance when working with daylighting.



Daylight studies for the Gwinnett Environmental and Heritage Center, designed by Lord Aeck Sargent Architects displays two types of lighting calculation studies, both rendered in Lumen Micro: the luminance of the space (above) and footcandle contours—illuminance (below).



**3. DO MOCKUPS, ESPECIALLY WHEN CALCULATING FOR DAYLIGHT.**

"Calculating artificial light is about as easy as it gets," Gerwing explains, "because you are talking about a static system. Obviously, with daylighting, you are talking about a dynamic system that is constantly changing throughout the day. It is an unending variable." Because of this, a lighting designer cannot simply rely on one calculation for the space, as its results would only reference a specific time and day. The complexity of calculations increases tremendously with daylighting projects,

although most lighting programs are sophisticated enough to derive some basic daylighting computations. Physical models, however, allow a designer to see how the daylight will interact with the room volume.

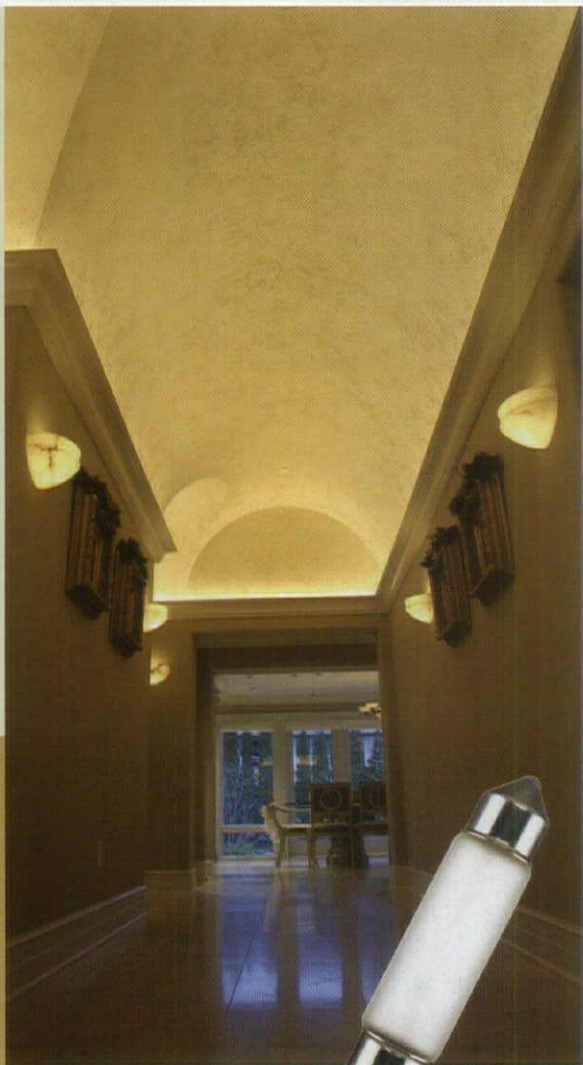
Generally, though, daylighting is not a stand-alone component of a lighting plan. Even in the most advanced daylit spaces there is a need for a supplemental electric lighting system. Yancey explains, "We are still going to design our electric lighting to a certain level when it is dark outside. Most spaces will not be used only during the day. Even in late afternoon, when you have very little daylighting, the need for electric lighting is present."

FOR MOOD,

FOR DRAMA,

FOR DESIGN,

FOR LIGHT.



**4. INVESTIGATE SPECIAL REQUIREMENTS FOR CODE AND STANDARD COMPLIANCE.**

The tension between the functional and aesthetic aspects of calculating light becomes further obvious when a project must comply with codes. Requirements for state code compliance have become more stringent in recent years. Gerwing explains how "Regulations have basically required states to lower the limits for allowable lighting power, and it is becoming a big issue in the lighting industry. It gets to the point where codes start to limit the wattage so much that you begin sacrificing aesthetics." For Gerwing, the bigger issue is always visual, solving the problem functionally in a way that retains the aesthetic intention. Sami warns of relying too heavily on the calculations that are part of the LEED daylighting credit. He explains that the LEED credit requires a daylighting factor calculation, "which honestly is not always a great solution. The daylight factor was developed for conditions in England, which are pretty cloudy. It's great if you are working in Seattle, but for most places, it's not a great thing to go by. You can do the calculation for the LEED credit, but it is always worthwhile to do the simulations in one of the [more sophisticated] programs."

Depending on the project, calculations can act as best practice guidelines or to reinforce code compliance. In either case, the process of lighting calculations provides a balance between aesthetic and functional considerations.

*Jessica N. Johnson is an architect in Raleigh, North Carolina. She received her Master of Architecture from North Carolina State University, and is currently participating in a teaching fellowship at the school.*



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# Into the Limelight: Manufacturers Go Green

SALLIE MOFFAT

**THE SUSTAINABILITY TRAIN IS AT THE PLATFORM AND** everyone—including the lighting manufacturer—is getting on board. In the flurry to take an environmental stance, they are not only reacting to, but initiating change in, a market that is revealing a pressing need for “green” products, technologies, and business practices. But what is driving this sudden attention? And how are lighting manufacturers responding to the issue?

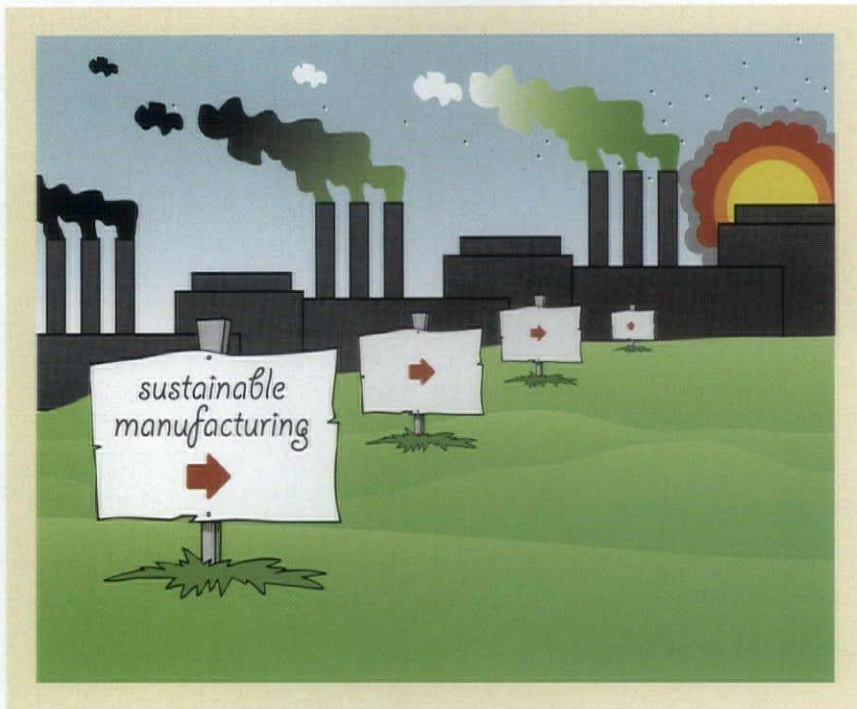
## TAKING THE WHEEL

Several influential factors are driving lighting manufacturers’ sustainable initiatives, including a combination of energy codes and regulations, new design standards, and consumer consciousness and demand.

Energy regulations, such as California’s Title 24, which went into effect last October, not only ensure that energy-efficient products are being used, but encourage manufacturers to create more code-compliant goods to meet demand. Progress has been made in addressing commercial architectural lighting, and the residential lighting market is not far behind. As one of the most advanced and the few required residential energy codes, Title 24 is pushing homeowners to buy products that comply with its stringent requirements. Numerous products have already been released, with many more in development.

Regulations cited in the Leadership in Energy and Environmental Design (LEED) green building ratings system—whose requirements are based on a variety of energy codes, and stipulate compliance with IESNA 90.1-2001 as a prerequisite—are being referenced in state energy legislation, establishing LEED as a major standard. Currently, 13 states require new-construction public buildings to adhere to LEED. With energy conservation being the largest category in the increasingly influential system, efficient lighting design (as a direct and indirect contributor) has become more critical than ever. Moreover, the program’s recent focus on homes (LEED-H), in the pilot test phase, and neighborhood development (LEED-ND), currently in draft, promises manufacturers another outlet for new families of efficient products.

Perhaps the most encouraging influence on manufacturers is the consumer. In a 2003 survey by the Alliance for Sustainable



Built Environments (ASBE), 70 percent of American consumers said they are more likely to buy a product if they know the manufacturer uses environmentally friendly practices—a testament to the kind of market toward which customers leaning.

## NO MANUFACTURER LEFT BEHIND

Today, manufacturers’ commitment increasingly extends beyond their products. Company-wide “green” initiatives and operating philosophies, partnerships with federal agencies and environmental organizations, and other genuine efforts to lessen their environmental footprint are becoming a standard part of the corporate profile.

Large lighting manufacturers have dedicated entire business models to the issue, affecting every facet of the company. *Ecologic*, Osram Sylvania’s comprehensive initiative for both overall environmental commitment as well as a baseline for environmentally preferable products, was launched in 1996, explains environmental marketing manager Jennifer Dolin, “to address the environmental impact in our products, processes, and packaging.” The number of products that now bear the *Ecologic* logo numbers over 800. GE has

recently followed suit with *Ecomagination*, launched in May 2005, which encompasses all aspects of the company’s numerous divisions. Through it, GE Lighting plans to significantly expand existing “green” offerings. In addition to doubling research investments in greener technologies to \$1.5 billion annually by 2010, the company expects to perform upgrades to its manufacturing plants that include new energy-efficient lighting systems by 2008.

As a founding member of the U.S. Green Building Council (USGBC), the organization responsible for LEED, and part of the ASBE, Philips’ sustainability policy was integral to the company’s strategic thinking “far before it was popular,” claims Steve Goldmacher, director of corporate communications. “We have an entire office—the Philips Corporate Sustainability Office—dedicated to just that.” In 1995, Alto was introduced, establishing Philips as a pioneer in the category of low-mercury fluorescent lamps. Today, as well as *EcoDesign*—an initiative focusing on all phases of product design to ensure environmentally conscious procedures—Philips’ manufacturing plants are audited to comply with Philips’ own sustainability cri-

teria and those of ISO 14001 environmental management system standards.

For some manufacturers, sustainability is more than an initiative; it is a founding principle. David Bergman, founder of Fire & Water, an environmentally conscious product design firm established in 1992, says, "As a practicing architect, I knew that there were limited choices in decorative eco-lighting, which designers assume means ugly color rendition and 'tree-hugger' granola aesthetics. My goal has been to make those assumptions obsolete." Bill Gray founded HereThere Designs in 2001 after noticing a growing interest for sustainable products, as well as a glaring inadequacy in the market. "Customers weren't being presented with real sustainable options. Most people talking about sustainable products are speaking in terms of twenty-five percent post-consumer recycled waste, which doesn't address the issue." To fill the void, Gray's decorative luminaire's are 100 percent non-toxic, sustainable, and recyclable.

**LET THE SUN SHINE IN**

It goes without saying that the quest for energy efficiency places an emphasis on the use of natural light. Not only a significant way to decrease power usage, daylighting, studies have shown, offers benefits for productivity and health. But the classic challenge: controlling the sun. Steps must be taken to minimize glare, maximize visible light transmission, and maintain thermal control. High-performance insulated windows, effective shading and window treatments, carefully placed reflective finishes, sensors, and controls can add up to a well-lighted space that requires minimal electric lighting during the day.

Arguably, the increase in the thoughtful application of natural light is breeding a new kind of "lighting" manufacturer. Companies with product lines dedicated to harvesting and managing daylight (i.e., shading systems, louvers and light shelves, sensor and controls) are increasingly targeting the lighting specifier. Lightfair, the lighting industry's primary U.S. tradeshow, even launched in 2003 a special set of seminars and an area of the show floor dedicated to daylighting.

**REDUCE. REUSE. RECYCLE.**

In the lighting industry, recycling and the use of recycled materials as a practice

seems to have a ways to go. According to the Association of Lighting and Mercury Recyclers (ALMR), technologies to reclaim mercury from spent lamps and recycle them in a safe and compliant way were developed in the United States starting in 1989; however, there were few service providers. From 1990 until mid-1999, the recycling rate for mercury lamps grew to about 12 percent, and has continued to increase. Helping the number along, on July 12, 2005, New York joined Minnesota, Vermont, Maine, Connecticut, Rhode Island, California, and Florida in requiring that all commercial facilities recycle mercury-containing lamps.

But there is still much room for improvement: The Environmental Protection Agency's Reduce, Reuse, Recycle initiative

**STATISTICS**

LAMP BREAKAGE RELEASES UP TO ONE TON OF MERCURY ANNUALLY INTO THE AIR -- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

ABOUT 600 MILLION FLUORESCENT LAMPS ARE DISCARDED ANNUALLY IN THE U.S. -- EPA

BY THE YEAR 2020, WORLD ENERGY CONSUMPTION IS PROJECTED TO INCREASE BY 50 PERCENT, OR AN ADDITIONAL 207 QUADRILLION BTUs. IF THE GLOBAL CONSUMPTION OF RENEWABLE ENERGY SOURCES REMAINS CONSTANT, THE WORLD'S AVAILABLE FOSSIL FUEL RESERVES WILL BE CONSUMED IN 104 YEARS, OR EARLY IN THE 22ND CENTURY -- U.S. DEPARTMENT OF ENERGY

hopes to raise the national recycling rate for mercury lamps to 80 percent by 2009. In this, the agency faces a challenge; the current national recycling rate for mercury lamps is only about 24 percent. Of the poor rate, Jennifer Dolin suggests, "people tend to throw things away because they can."

Some manufacturers are trying to make the alternatives as easy. Many company programs are tailor-made, providing the ease of convenience. Case in point: Fiberstars' Reuse Recycle Program, established at the request of their client Whole Foods, is a comprehensive program in which the company reuses 97.1 percent of the product (by weight), recycles 2.4 percent, and responsibly disposes of the remaining .5 percent. And it could not be any easier. When a client requests a

replacement lamp, Fiberstars sends out a box with a return sticker. Once the spent lamp has been received by Fiberstars, the client is sent a coupon for 10 percent off her next replacement lamp. Although the cost is 20 percent greater than the cost of procuring and assembling new materials, Ted des Enfants, vice president and general manager of Fiberstars, says, "it's another benefit that we can bring to our customers. It's helped our product sales and the customers' confidence in our technology." HereThere Designs' luminaires are "Designed for Disassembly," meaning that each of the constituent components can be removed and recycled independently. Although Gray has the ability to recycle the acaba fiber used for shades in-house, "all this talk of recycling is somewhat funny, since our work is designed to last forever with proper care."

**RECOGNITION BREEDS EDUCATION**

Manufacturer efforts must ultimately follow consumer demand; however, "we have to educate both our clients and end users about the responsibilities and limitations that come with super-efficient lighting systems," explains Charles Stone, president of both the IALD and Fisher Marantz Stone. Inadequate consumer information about the energy, economic, and environmental benefits of efficient lighting technology, as well as the high initial cost of energy-efficient products, has limited sustainable lighting product purchasing. While consumers may demand environmentally friendly products, they have yet to learn how and where to use them.

An undereducated consumer base has proven problematic for manufacturers. Not knowing if there is a market for a new product makes it difficult to project sales. Larger companies have the resources to do extensive research and market development, but small manufacturers must wait until the market is ripe.

To solve this marketing challenge, manufacturers of all sizes are forming partnerships and alliances with federal agencies, environmental organizations, and clients to increase their chances of success. Fiberstars, for example, is working with supermarket chain Albertsons and Southern California Edison to validate the energy and heat savings expected from its EFO ICE product in refrigerated cases. Many manufacturers (including Sea Gull, Progress, MaxLite, and Lithonia) have chosen to par-

ticipate in the Energy Star program, introduced in 1992 by the EPA. As the program's icon has appeared on more items—from air conditioners to light fixtures—consumers have gained awareness. A 2004 survey by the Consortium for Energy Efficiency found that consumer awareness of the Energy Star label had increased from 56 to 64 percent, between 2003 and 2004.

Smaller companies, such as Fire & Water, often rely on the technologies of larger manufacturers. Bergman says, "Our first two product lines were not especially green because we were waiting on the technology. I had designs 'in waiting' for the dimmable compact fluorescent technology that I knew was coming out."

#### THE FUTURE LOOKS BRIGHT

Technological breakthroughs will continue to provide more sustainable options. While the technology is not yet fully developed, many are hopeful that LEDs will eventually render traditional light sources obsolete. The Energy Policy Act authorized the Department of Energy to invest \$50 million annually from 2007 to 2013 in LED research and development.


Design practices and standards also promise to evolve, as they have already. The creation of the Cradle-to-Cradle (C2C) certification program, for example, promotes the idea of self-renewing design. Conceived by architect William McDonough and chemist Michael Braungart, the program challenges cradle-to-grave manufacturing of products that end up in landfills at the end of their 'life.' Instead, McDonough and Braungart are making "cradle-to-cradle" products, whose materials are perpetually circulated in closed loops. Programs like this lend a way to police the industry, encouraging the serious to be certified. Mechoshade's recyclable EcoVeil product, for example, is in the process of receiving "Silver" certification in McDonough Braungart Design Chemistry nomenclature, and the company plans to expand its range of products for evaluation under C2C.

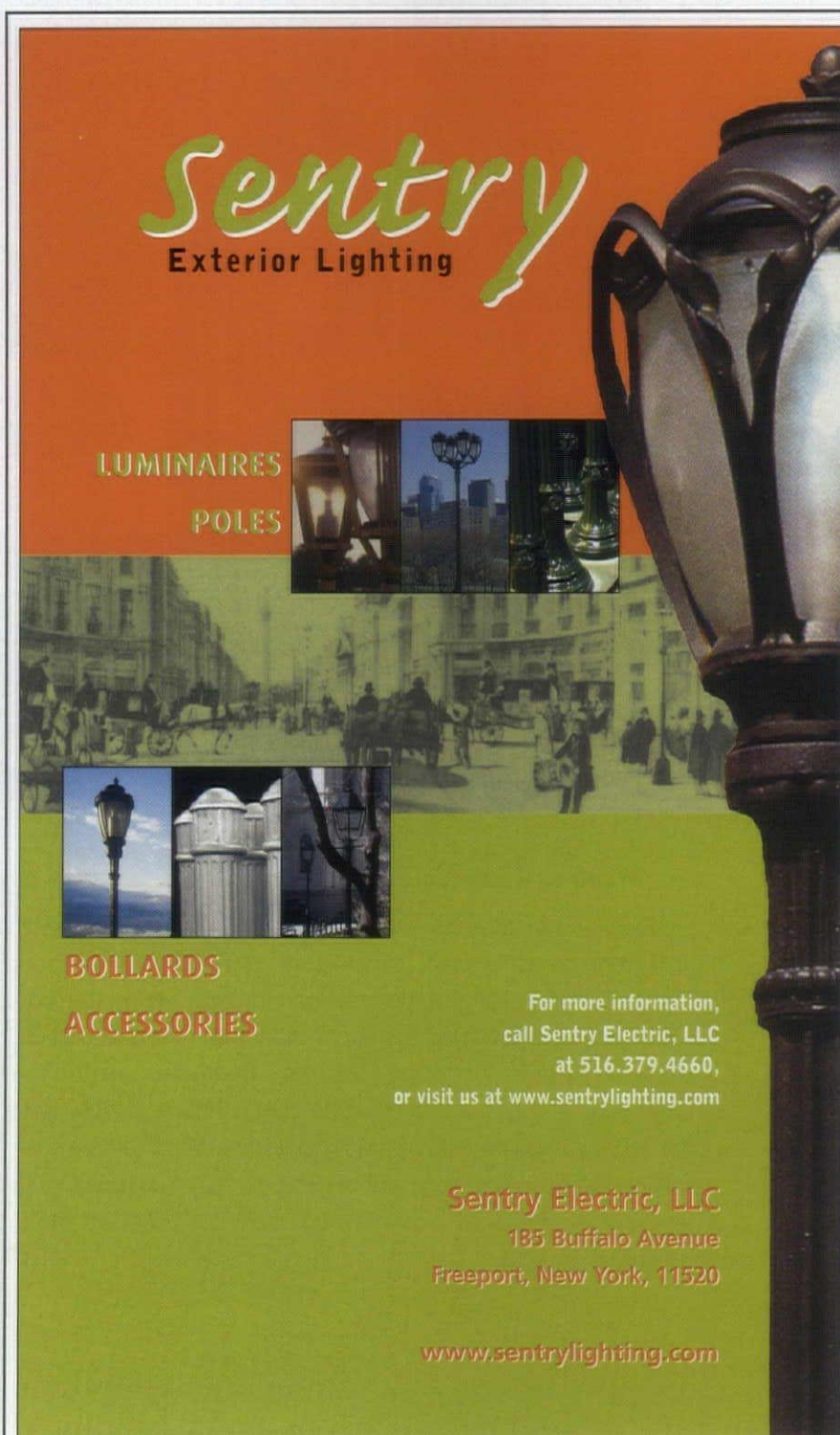
Of course, there is plenty of cynicism about the true breadth and depth of company sustainability claims—and perhaps for good reason. Greenwashing, the marketing of "green" initiatives when they really are not, is a documented problem. Blaming this ploy on a lack of regulation, organizations such as Canada-based Green Shift, who perform environmental assessments, are fighting back, analyzing products and "the com-

panies behind the products" to determine whether or not they are "Genuine Green."

While there is no doubting the sincerity of most manufacturers' environmental concerns, they are definitely positioning themselves to take financial advantage of the growing market. This is, after all, business. Whether touting sustainable initiatives for

PR pitches, business strategies, or for the general good, does it really matter as long as the manufacturers' response is the means to a sustainable end?

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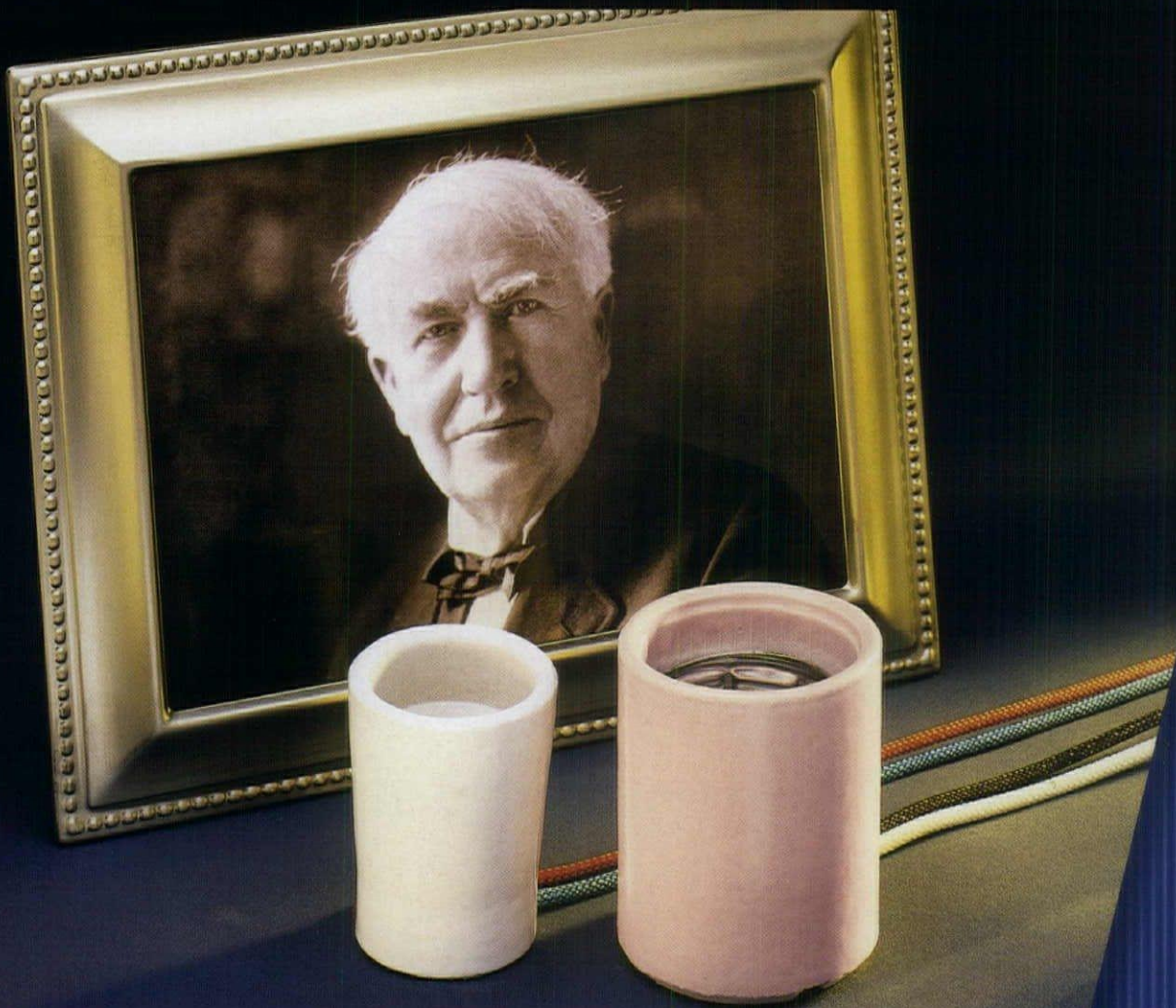
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## Useful Tools: Sustainable Technology Reviewed

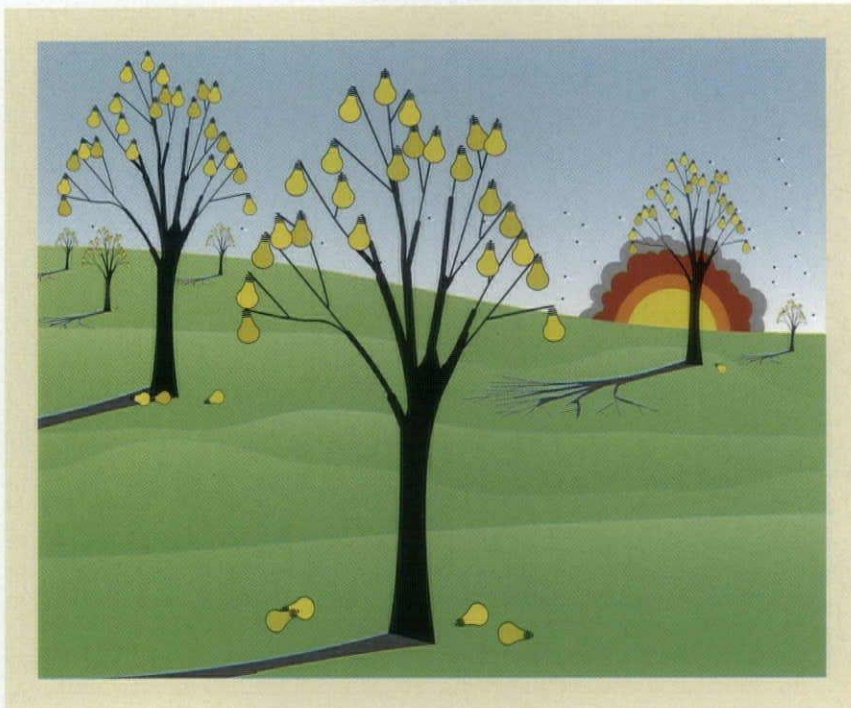
JAMES BENYA

**BY NOW, MOST NORTH AMERICAN LIGHTING PROFESSIONALS** have addressed sustainability on one or more projects. Once limited to a few forward-thinking buildings, the U.S. Green Build Council's Leadership in Energy and Environmental Design (LEED) requirements have become standard criteria for most government facilities, and common on academic and healthcare projects. This is not a North American phenomenon, either: the Chinese government has opened its first LEED-certified building and pledged to follow sustainable growth for China's future, as a matter not of social conscience so much as of pure necessity.

As with a small lighting budget, sustainable practices necessitate changes in design approach and techniques, and in the choice of products and materials. As momentum has gained around the issue, manufacturers' offerings have improved. Today, there are a number of lighting technologies and products that make it easier to meet sustainability criteria.

**BEST BULBS.** For most applications, skinny fluorescent tubes rule. It is almost impossible to beat the 100+ mean lumens per watt of the latest "super" T8, T5, and T5HO lamp and ballast systems. The most recent developments include amalgam T5HO lamps, which maintain rated lumen output over a wide range of temperatures. However, for a number of applications, the efficacy of skinny tubes is now challenged by ceramic metal halide, the latest of which can achieve almost 90 mean lumens per watt, with a color rendering index (CRI) of 85 or higher. And when it comes to display lighting, the efficacy of ceramic metal halide sets it apart from everything else. With lamps ranging from 20 watts on up, and in a variety of envelope styles from the tiny T4 up to a brilliant PAR64, the ceramic metal halide with an electronic ballast appears to be the energy-efficient choice of now and the near future.

The benefits of compact fluorescent lamps (CFL) have been touted for years. Compact fluorescents remain a good choice for use in downlights, wallwashers, and decorative lighting. Keep in mind that CFLs are typically about 60 mean lumens per watt, so they are not quite as good as skinny tubes or high-wattage HID lamps. But for demanding aesthetic applications



where long lamps do not work, CFLs are often the best choice.

Some of the more esoteric lamps are also worth considering. For example, the efficacy of induction lamps is like that of the compact fluorescent, somewhere between 50 and 60 mean lumens per watt. These sources are the king of long life (up to 100,000 hours), a worthwhile consideration in those hard-to-reach locations. Likewise, as practical white light LED lamps evolve, expect to use them more.

**SUPER BALLASTS.** In order to achieve the high efficacy of the latest sources, efficient ballasts are absolutely necessary. Take, for example, the "super" T8 lamp; using the efficient "super" ballast, rather than a generic electronic ballast, saves 2 to 3 watts per lamp with no change in light output. Electronic ballasts make an even bigger difference when used with HID lamps. Metal halide lamps last longer and have higher maintained lumens when operated on electronic ballasts, and the internal loss of power in the ballast is reduced. Savings are achieved by a combination of improved ballast efficiency and significantly improved lamp lumen maintenance. In typical 400W metal halide applications, power savings are over 100 watts per lamp.

**EFFICIENT INDOOR LUMINAIRES.** Using more efficient luminaires in conjunction with more efficacious sources is a dream combination for sustainable design. To meet this need, manufacturers have introduced a number of important products capitalizing on the latest lamps, aided by 95 percent or higher reflective specular or white surfaces, to achieve phenomenal overall lighting efficiency. For instance, it is now possible to achieve up to 85 maintained footcandles of general lighting at 1 watt per square foot using a lighting system that is an attractive improvement on the familiar fluorescent troffer. Likewise, imagine high-bay retail space, using the latest reflector technology that helps keep the luminaire clean: lighting levels of 50 to 60 maintained footcandles or more are possible at 1 watt per square foot with lamps that render colors spectacularly with CRIs ranging from 85 to 92.

Product improvements are not limited to just the standard vanilla options. Today, every manufacturer of lighting products is seeking to improve the energy performance of its product line, ranging from fabulous new American and European commercial luminaire systems that emphasize T5 and T5HO sources to a wide variety of standard and semi-custom decorative

**DIMMING AND NEW LAMP TECHNOLOGIES** GIVEN THE INCREASING

EMPHASIS ON CONTROLS AS A MEANS OF ENERGY EFFICIENCY, DIMMING IS A HIGHLY DESIRABLE CAPABILITY. BUT UNFORTUNATELY, DIMMING IS NOT AS EASY OR UNIVERSAL AS WE WOULD LIKE IT TO BE. HERE IS A LOOK AT CONTEMPORARY LIGHT SOURCES AND THEIR CURRENT DIMMING ISSUES:

**T8** Electronic dimming ballasts are not as efficient as non-dimming, although new efficient dimming ballasts are entering the market. Also, use only 32W lamps; the 25W, 28W and 30W energy-saving lamps are not designed for dimming.

**T5HO** Some brands cannot be dimmed owing to ultra-low mercury levels, so choose products that guarantee dimming without problems or short lamp life. Note that the new amalgam lamps cannot be dimmed. (See "What's an Amalgam Lamp?" right.)

**T5** It is very hard to find non-DALI dimming ballasts.

**CERAMIC METAL HALIDE** Metal halide lamps have warm up and restrike issues and a limited dimming range. Dimming ballasts are available for both the 39W to 150W class lamps and the 250W to 400W lamps. Electronic dimming ballasts are relatively new for metal halide lamps, so choose lamp and ballast systems carefully.

**LED** Most LED lighting systems can be dimmed, but due to lack of standards, do not assume compatibility with conventional electric lighting control systems.

**WHAT'S AN AMALGAM LAMP?**

THE LOW-PRESSURE MERCURY ARC IN FLUORESCENT LIGHTING IS SENSITIVE TO TEMPERATURE, RESULTING IN SIGNIFICANTLY REDUCED LIGHT OUTPUT WHEN THE LAMP BECOMES ESPECIALLY HOT OR COLD. FOR EXAMPLE, THE T5HO LAMP'S RATED LIGHT OUTPUT IS ONLY ACHIEVED WHEN OPERATED IN FREE AIR AT 35°C (ABOUT 95°F). WHEN OPERATED IN FREE AIR AT 20°C (ABOUT 68°F) OR 60°C (ABOUT 160°F), OUTPUT DROPS ABOUT 20 PERCENT. THE WORD "AMALGAM" MEANS A COMBINATION OF MERCURY WITH ANOTHER METAL OR METALS. IN AMALGAM LAMPS, THE USE OF OTHER METALS HELPS MAKE THE LAMP OPERATE AT OR NEAR RATED OUTPUT OVER A WIDER TEMPERATURE RANGE. THE T5HO AMALGAM LAMP MAINTAINS AT LEAST 90 PERCENT OF RATED LIGHT OUTPUT BETWEEN 5°C AND 80°C. THE PRIMARY DRAWBACK OF AMALGAM LAMPS IS POOR DIMMING OPERATION.

pendants, sconces, and chandeliers using efficacious sources. New developments in track lighting, including power-limiting devices and low-wattage HID, will revolutionize retail lighting to meet this need.

**DARK SKY-FRIENDLY LIGHTING.** LEED is not the only standard that requires significant limitations to outdoor lighting: there are over 1,000 dark sky ordinances in the United States and Canada, and a new

model lighting ordinance is under development jointly by the IESNA and the International Dark-Sky Association.

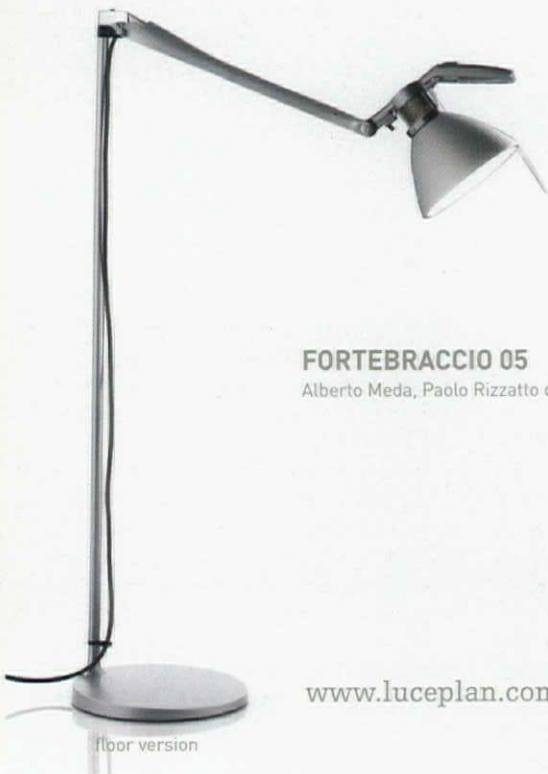
The need for new lighting systems, combined with the call for replacing the majority of existing outdoor lighting, has inspired whole new families of products for everything from street lighting to sign lights. While it is easy to design contemporary dark sky-friendly luminaires, there are now traditional designs that retain the historic charm of antique lighting without throwing huge amounts of light into the night sky—or your bedroom window. Also, expect to see lighting systems that use very low-wattage ceramic metal halide lamps, LEDs, and other sources replacing high-wattage lights in rural and suburban areas. Imagine roadways outlined with LEDs or parking lots lighted at less than 0.5 footcandles with warm, incandescent-like light.

**CONTROLS: THE SECRET INGREDIENT.**

Because energy is the product of power (watts) and time, controls hold the key to energy management. Motion sensors and other current technologies are so effective, they are part of most energy codes. LEED goes beyond just saving energy, by actually awarding points on the basis of energy cost savings, forcing the use of daylighting controls and other techniques that cut lighting energy use at peak times.

Technology has evolved to make the most powerful control systems useable and cost effective. Plug-and-play wiring and communications systems are working

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to eliminate costly and complex hardwired analog controls, and digital programming of powerful control functions has become, at long last, a lot easier and more intuitive. As daylighting becomes a prominent part of lighting design work, specifying shading and other lighting control systems like louvers will become standard practice for lighting designers and architects. These systems must, in turn, be closely integrated with all types of electric lighting controls from daylight dimming to motion sensing. In the future, smart designs will enable the building to shed power, either when asked by the utility or, perhaps, when the price of electricity rises above an acceptable maximum rate.

**ADDRESSING THE MERCURY ISSUE.** LEED-EB, a recently launched rating system for existing buildings, has taken a bold new step: in addition to rewarding energy savings, LEED-EB requires building managers to record and track the use of mercury in lighting systems. This will promote retrofitting with specific products that are both energy efficient and use ultra-low levels of mercury in most lamps. Approaching work on existing buildings, designers should generally favor T5 and T8 lighting systems for indoor lighting, and (as much as I hate to say it, given its ugly yellow hue), the use of high-pressure-sodium lighting for the exterior. Eliminate mercury vapor and traditional metal halide lamps, and minimize the use of compact fluorescent systems (which tend to have a lot more mercury per lumen than the skinny tubes). Incandescents and LEDs are mercury free, but make it difficult to meet efficiency criteria.

**THE FALL OUT.** As sustainable design matures and designers learn to do more with less, we can expect continuing refinement and increasingly tough requirements. The reason for change is obvious, and as more of these requirements become code, our industry and its products will evolve to meet the coming challenge. Now we must develop the design skills to match.

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

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

## IS THE LED READY FOR PRIME TIME?

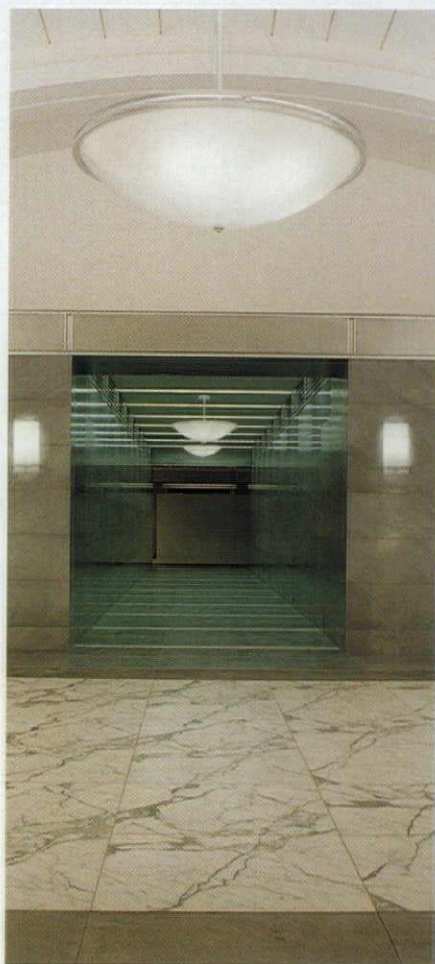
The promise of the LED is exciting: high efficacy, long life, and no mercury. The U.S. Department of Energy is investing more in LED research than all other lighting opportunities combined. The lamp companies also have major R&D interest in LEDs, as do numerous fixture manufacturers.

Unfortunately, LED systems are a long way from broad use. Current efficacy in practical LED lighting is about the same as halogen IR—and about 100 times more expensive. Heat sinking and ambient temperature can dramatically affect lamp life, and efficacy calculations often do not include the typically inefficient power supplies of LEDs. Color temperature is critical: Scotopic issues aside, most lighting designers choose 3000K to 3500K and now expect at least 80 CRI. Although some LED devices are 3000K, most practical options are between 4500K and 6500K. Worse, most white LEDs have a CRI of less than 75. It is also fair to assume that no one will buy a lamp that costs more than a dime per lumen—which is the best white LEDs can do.

Still, LEDs are appropriate for many applications. They are superior in color-changing systems, traffic signals, and indicator lights. LED technology also lends itself to rapid evolution, and it is a safe bet that innovations will make it to market quickly.

Standards are still being developed, making it difficult to compare LEDs to regular light sources, but here are a few things to consider:

- LEDs are superior at efficiently generating specific colors of light. However, change these colors even a little through RGB blending, and the advantage is lost.
- LEDs are not inherently efficient at producing white light, especially high CRI in the critical 2700K to 3000K range. Simple RGB mixing is inefficient and produces poor CRI, so advanced technologies are needed to make incandescent-like lamps, notably phosphor.
- Many current LED efficacy claims ignore power supply (driver) losses. Efficient drivers are supposedly available, but without standards, it is hard to tell how efficient they are.
- Part of the LED mythology is that they have no heat. That is not true. Although LEDs do not waste energy by generating infrared light, there is still heat that must be conducted away from the lamp and then radiated into the air. If not dissipated, this heat will quickly kill the LED.



## NORFOLK ARCHITECTURAL SERIES

Integrating function with style, W.A.C.

Lighting's new Norfolk Series features a family of architecturally styled decorative luminaires designed to light contemporary commercial interiors. The brushed nickel pendants are offered in diameters from 24" to 48" with glass and acrylic diffusers and available for compact fluorescent or incandescent lamping. Options include matching ADA sconces, ceiling mounts and close-to-ceiling luminaires.

Tel. 800.526.2588 [waclighting.com](http://waclighting.com)



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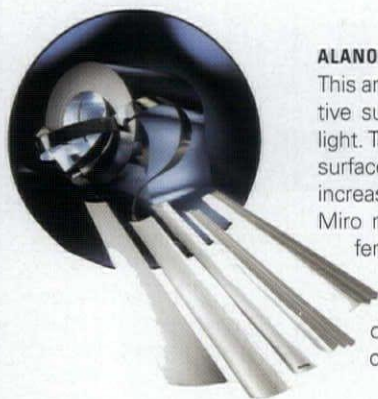
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## THE LIGHT STUFF

As the call for more sustainable practices necessitates change in design approach and technique, lighting professionals will require new tools to achieve evolving eco-friendly criteria.

Advancements in technology have increased the breadth of materials and products available. Here are a few to make your next sustainable lighting scheme a little easier.

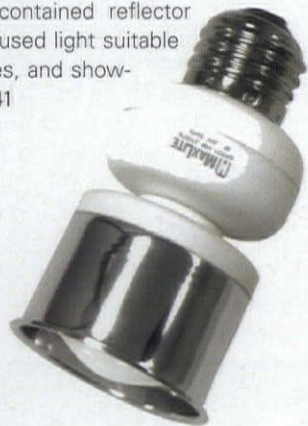


### ALANOD | MIRO-DAYLIGHT | ALANOD.COM

This anodized aluminum strip has a highly reflective surface for an optimal distribution of daylight. Total reflection of visible light for anodized surfaces is generally about 87 percent, but is increased to approximately 95 percent with the Miro reflection-enhancing layer. Offered in different grades of tensile strength, strips and custom solutions for all types of systems are available. Strips can be wholly or partially perforated, created in a variety of shapes, and custom painted. CIRCLE 140

### MAXLITE | HALOMAX SPOTLIGHT REFLECTOR LAMP | MAXLITE.COM

Designed specifically to fit all track fixtures with AC screw-in Edison bases, the HaloMax lamp—an 11W compact fluorescent—is equivalent to a 40W incandescent lamp and lasts for 10,000 hours. The self-contained reflector base emits a focused light suitable for homes, offices, and showrooms. CIRCLE 141



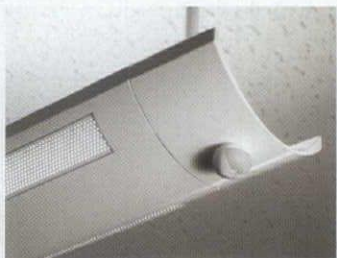
### WATT STOPPER | VACANCY SENSORS | WATTSTOPPER.COM

Compliant with California's Title 24 energy code, Watt Stopper's vacancy sensors can replace any standard wall switch. They use passive infrared technology to detect occupancy, automatically turning the lights off when a room is vacant for up to 30 minutes. Lights can also be turned on and off manually. CN, one sensor in the series, has an LED nightlight incorporated into its faceplate. Faceplates are available in white, ivory, and almond. CIRCLE 142



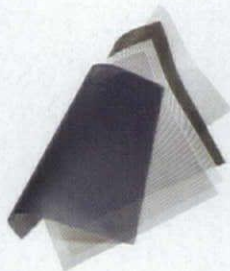
### GOOD EARTH LIGHTING | GLENCOE FLUSH MOUNT | GOODEARTHLIGHTING.COM

As with numerous products by Good Earth Lighting, the Glencoe Flush Mount is recognized by the Environmental Protection Agency as an Energy Star-compliant fixture. At 15 inches in diameter, the luminaire has a brushed nickel finish and an opal diffuser, and is lamped with a 30W circline compact fluorescent, estimated to last 10,000 hours. CIRCLE 143



### LUTRON | DAYLIGHT SENSOR | LUTRON.COM

Compatible with all Lutron control systems, the fixture-mountable Daylight Sensor allows automatic dimming of electric lights when available daylight is high, and brightening of lights when daylight is low, maintaining a specific light level throughout a space. Small and unobtrusive, the sensor is both fixture- and ceiling-mountable. Special features include low-voltage wiring and calibration for daylight sensitivity. CIRCLE 144



### NYSAN | GREENSCREEN ECO | NYSAN.COM

The newest addition to the GreenScreen family of PVC-free solar-control fabrics, GreenScreen Eco is made of pre-stretched polyester that allows the fabric to maintain stability over large areas. With a 3 percent open weave, the fabric is available in five colors, and can be matched to any color specification. Nysan also offers customized dual coloring, in which each side of the fabric is a different color for a greater level of heat control, glare reduction, and outward visibility. CIRCLE 145



**PPG INDUSTRIES | SOLARBAN 70XL | PPG.COM**

Surpassing the Department of Energy's commercial building requirements of a light-to-solar-gain ratio of 1.25 or higher, and out-performing comparable products on the market, Solarban 70XL's light-to-solar-gain ratio is 2.33. The low-E glass offers a combination of solar control and visible light transmittance with a transparent, color-neutral appearance. The color-neutral glass may be combined with tinted glass. **CIRCLE 146**

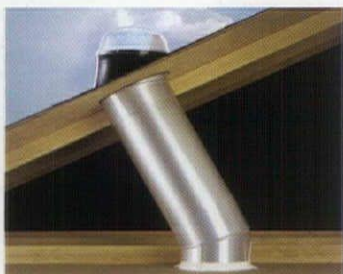


**VISTAWALL | SOLAR ECLIPSE | VISTAWALL.COM**

This sun-control product joins with curtain wall systems to shade a building's interior, reducing glare and solar heat gain. With a total projection of 24 to 36 inches, brackets, louvers, and fascias are available in several styles and shapes, which can be mixed and matched to create custom designs. **CIRCLE 148**

**SOLATUBE | BRIGHTEN UP SERIES | SOLATUBE.COM**

These tubular skylights are available in 10- and 14-inch diameters. From an impact-resistant roof dome, with a maximum visible light transmission of 92 percent, daylight travels down a highly reflective aluminum shaft with a silver film, providing over 99 percent total reflectance. At the end of the tubing, daylight is distributed through a die-cut acrylic diffuser. Flush diffusers with a frosted finish, or curved diffusers with a prismatic finish, are available, as well as options and accessories, including a ventilation add-on kit and a Daylight Dimmer. **CIRCLE 147**



**CYBERLUX | AEON PRO | CYBERLUX.COM**

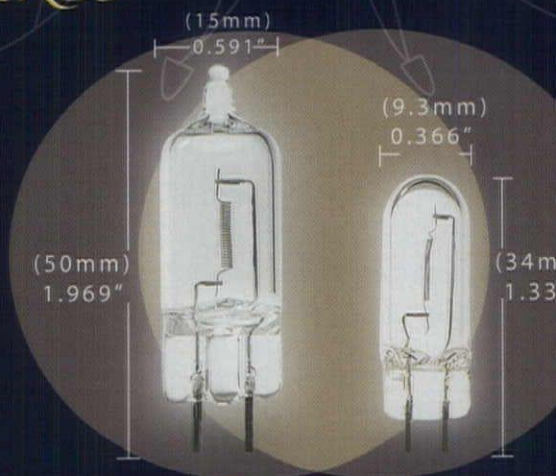
This LED fixture for residential task and accent lighting produces over 55 lumens per watt, exceeding Energy Star and the 40-lumen-per-watt requirement for kitchen and bath lighting under California's Title 24. Customizable, the luminaire is available in sizes from 8 to 48 inches in black, white, and anodized nickel. Custom surface finishes and light colors are also offered. The LEDs are available in two color temperatures—3,000K and 5,000K—and light levels can be dimmed. **CIRCLE 149**

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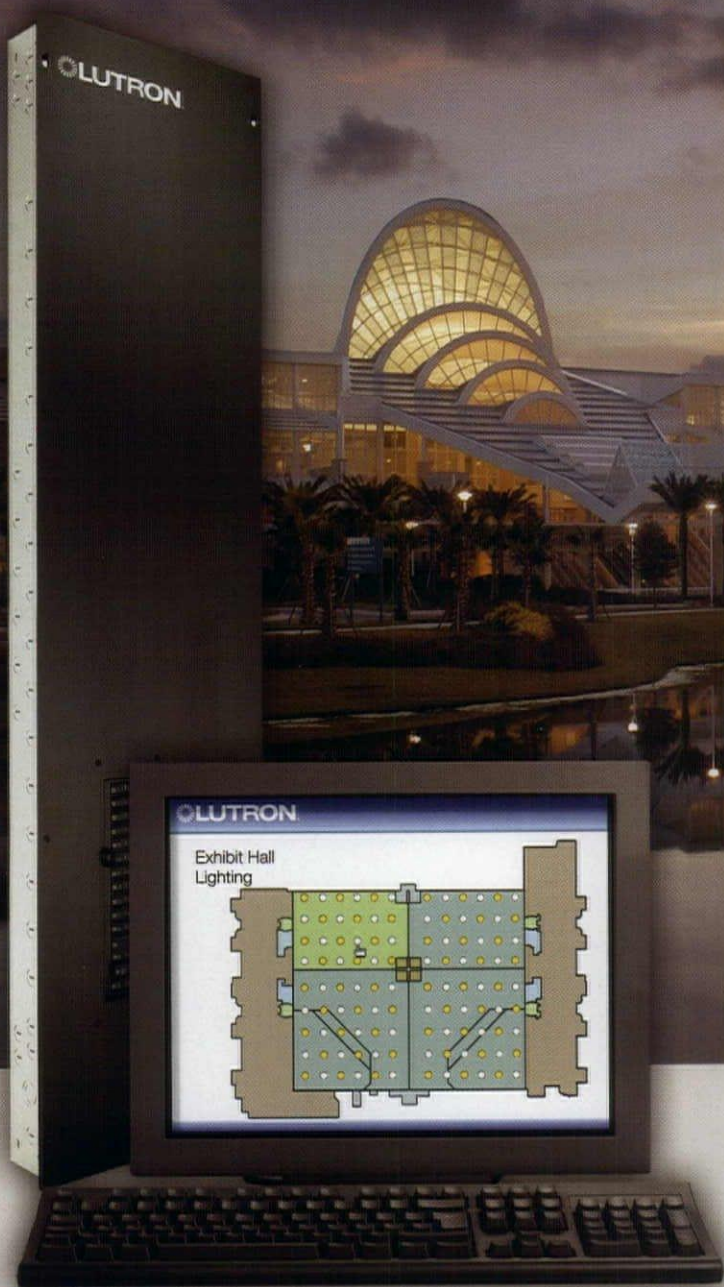
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design.

2005 Winners

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At Florida's **Orange County Convention Center**, facility teams save time and money by controlling over 12,000 lighting circuits — 9,000 switched and 3,000 dimmed — from a single system. Maintenance-friendly features include: 1,000,000-cycle reliability with Softswitch™ relays, customized eLumen™ control software for convenient system operation and real-time telephone control for changes to event lighting from anywhere in the new 1.3 million square-foot expansion.

Photograph © Ben Tanner Photography. Architect: Helman Hurley Charvat Peacock Architects Inc.



*Shown: Lutron GRAFIK 7000™ dimming and switching panel and customized PictureIT™ software screen.*

For more information on Lutron dimming, switching and shade control solutions, visit: [www.lutron.com/al](http://www.lutron.com/al) or call us toll free at **877.258.8766 ext. 221**.







architectural lighting  
**ACE.al AWARDS**  
ARCHITECT'S CHOICE  
FOR EXCELLENCE

It is with great pleasure that we announce the 2005 winners of *Architectural Lighting Magazine's* Architect's Choice for Excellence. The ACE.al Awards recognize manufacturers who have provided you and your projects with superior products and services. ACE ballots appeared in the April and May/June issues of *Architectural Lighting*. The ballots were also made available to architects at the Lightfair and AIA and conventions.

We salute all of the industry leaders, as voted by you, the readers of *Architectural Lighting*, for their commitment to product excellence in the areas of durability, customer service, value, and design. Innovation, customer collaboration, and superior performance are hallmarks of all winners as they strive to meet and exceed design expectation, cost criteria, and demanding deadlines. New this year, are three additional awards that recognize the Most Innovative, Most Respected, and the Most Specified lighting suppliers for 2005.

We also extend our appreciation to those who took the time to select this fine group of winners. To provide a valuable resource for you, the ACE.al Award winners will be available on our Web site—[www.lightforum.com](http://www.lightforum.com)—throughout the year. Cheers, to the best in the business.

Gary Gyss  
Publisher

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**ACE.al AWARDS**  
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# 2005 ACE.al Award Winners

## MOST INNOVATIVE

Lightolier

## MOST RESPECTED

Lutron Electronics

## MOST SPECIFIED

Lithonia Lighting

## TOP 30 MANUFACTURERS

- |                        |                        |
|------------------------|------------------------|
| 1. Lightolier          | Halo                   |
| 2. Lutron Electronics  | Holophane              |
| 3. Bega Lighting       | Hubbell                |
| Alkco Lighting         | Hydrel                 |
| Artemide               | Juno Lighting          |
| Beta Lighting          | KIM Lighting           |
| B-K Lighting           | Kurt Versen            |
| Bruck Lighting Systems | Lithonia Lighting      |
| Color Kinetics         | Louis Poulsen Lighting |
| Cooper Lighting        | Metalux                |
| Elliptipar             | Osram Sylvania         |
| ERCO                   | Prescolite             |
| FLOS                   | Tech Lighting, LLC     |
| Focal Point            | Visa Lighting          |
| GE Lighting Systems    | Zumbotel Staff         |

## METHODOLOGY

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

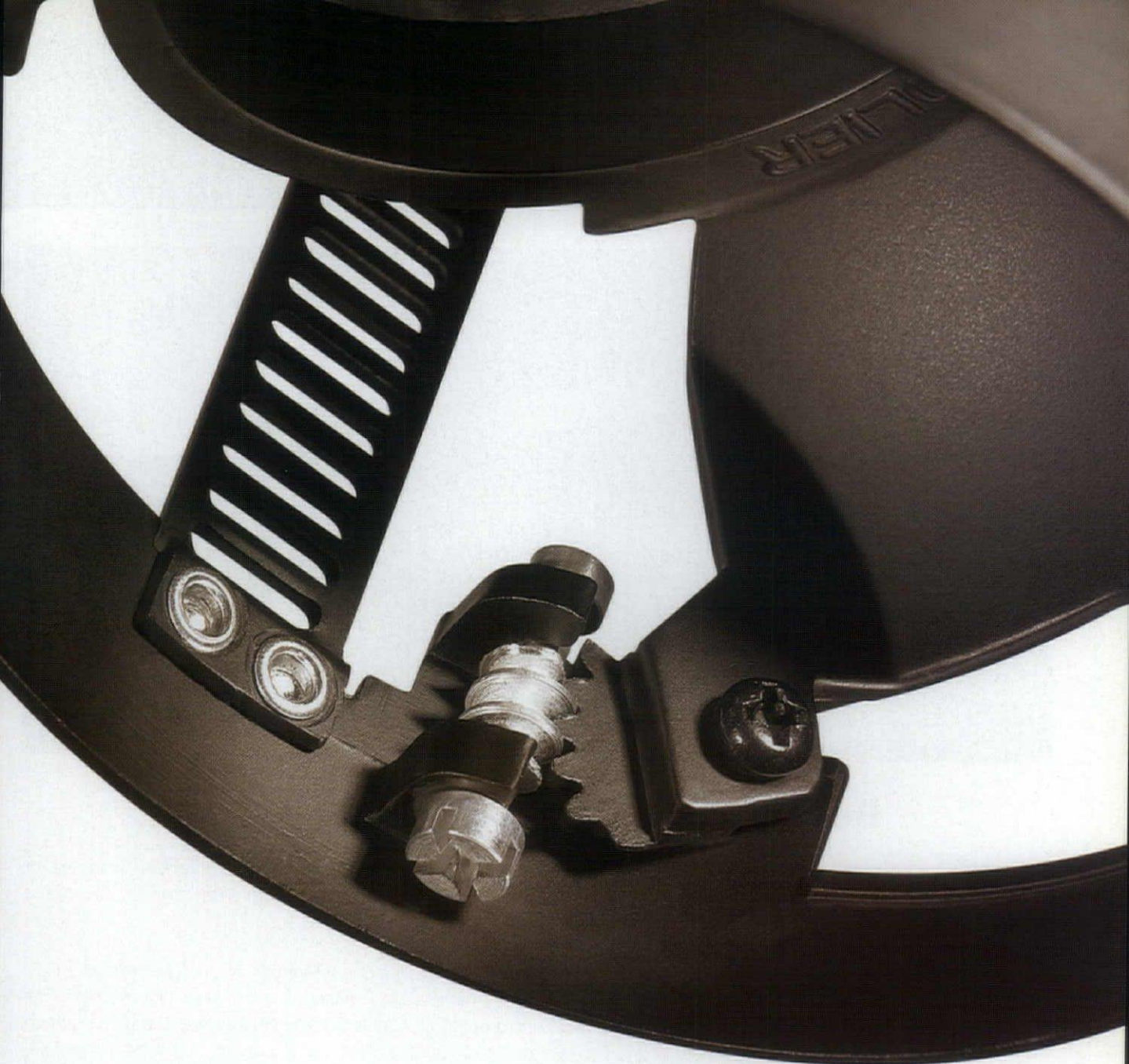


Image shown 400% of actual size

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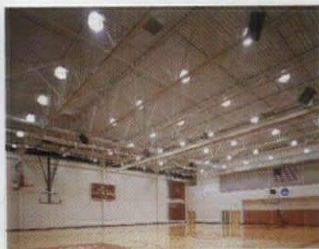
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## Top 30 Manufacturer



## Beta Lighting

### Industry Insight

"Timely and dependable ship dates are critical in today's competitive environment," says national sales manager Kevin Orth. "Part of Beta's mission is to respond quickly to our customer's needs as a partner in their building project. We pride ourselves on our timely and dependable ship dates. Our typical lead times on standard products are less than one week."

Beta Lighting is dedicated to providing high-quality, high-performance specification grade luminaires for both interior and exterior lighting applications at competitive prices, and in a timely manner. This allows Beta Lighting to deliver the best value to the specification market today.

Beta Lighting's luminaires are elegant, yet versatile, and provide excellent performance and reliability. Beta luminaire designs are contemporary and complement a wide variety of architectural design styles. The technical excellence designed into each luminaire solves a lighting challenge and sets standards for performance. Before a Beta luminaire is ever physically created, Beta Lighting design engineers utilize state-of-the-art design tools to ensure that products meet or exceed Beta's high performance standards. The design team also involves customers in the prototype design stage and incorporates their feedback into final designs. As a result, its designs offer performance, long-term durability, and serviceability. All luminaires are manufactured in an ISO9001:2000 certified facility in Sturtevant, Wisconsin, with predominantly die-cast aluminum housings and other primarily domestic components. Lamps and ballasts are sourced from high volume, high-quality manufacturers both inside and outside the United States. The optical design and the materials selected for luminaire reflectors ensure excellent performance and efficiencies.

### Beta Lighting Specifier Reference Now Available

Beta Lighting has just introduced a Specifier Reference that contains the latest product information necessary to select and specify Beta Lighting products. The 432-page Specifier Reference is a full-color guide to Beta Lighting's complete line of luminaires. It also includes company information, lighting industry technical information and an index to the new product nomenclature and previous generation nomenclature. □

For more information: (800) 236-6800; [www.beta-lighting.com](http://www.beta-lighting.com)

Photos: Beta Lighting fixtures are specified for a variety of applications, such as corporate headquarters, collegiate athletic facilities, and accent lighted cityscapes.



# Aviator

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designed by





## B-K Lighting

### Industry Insight

"Good is the enemy of great," says Ron Naus, Executive Vice President at B-K Lighting and Teka Illumination. "We spend each day working to make a great product for our customers. This simple idea inspires us to continually improve every aspect of our business. We know there are many choices available and we do not want our customers to have to settle for good."

In 2005, B-K Lighting continued to enhance its position as a key industry innovator with the introduction of several new products. "At Lightfair in New York, we introduced the award-winning Mini Micro Series, an entire family of products that utilize two new lamp sources—an axial reflector halogen lamp from Sylvania and a solid state LED package with an integral driver," said Ron Naus, executive vice president for B-K Lighting. "Reducing scale to a functional, 1-inch-diameter product earned us a coveted New Product Showcase Award for the series," Naus continued.

In addition, B-K Lighting introduced ICEE, a patent-pending solution that significantly reduces the lens temperature for its in-grade products. "The industry's answer has been ineffective at addressing this issue," said Naus. "ICEE incorporates our patented ACV (Anti-Condensation) Valve system to eliminate air from the sealed chamber, which permits 90 percent lumen efficiency and full biaxial lamp control," he said. ICEE is available on B-K Lighting's Tenaya2® and Precision2® luminaires.

B-K Lighting also completed its acquisition of Teka Illumination in September. "Teka adds a new level to our capabilities," said Naus. "Most importantly, it gives the design professional new flexibility, addressing both standard and custom lighting challenges which will in turn drive our business," he concluded.

Quality, service, innovation, and value all add up to make B-K Lighting a top choice in outdoor architectural and landscape lighting. □

For more information: (559) 438-5800; [www.bklighting.com](http://www.bklighting.com); [www.teka-illumination.com](http://www.teka-illumination.com)

Photos: Ceramic metal halide Sign Stars™ highlight B-K Lighting's exterior; (top right) a Mini Micro floodlight; (bottom right) the patent-pending ICEE system for lens temperature reduction.

# COOPER Lighting

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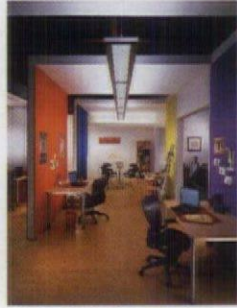
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## Top 30 Manufacturer



## Focal Point

### Industry Insight

"At Focal Point, we believe the development of outstanding new product designs is the lifeblood of our business, and we're devoting significant resources inside and outside the company to assure the success of this ongoing effort," says Christopher Thornton, president of Focal Point. "We're excited as to what lies ahead in the new year while continuing to service the needs of our customers."

The Art of Light® is what drives us. More than a tag-line, it expresses what Focal Point wants to do—bring artistry to the North American Lighting market. And innovative product design is only part of the story. This award-winning company continually works on new ways to develop its conviction to The Art of Light®. By collaborating with outside design firms, specifiers, and architects, Focal Point generates a wide number of new product ideas for consideration. Some of its newest luminaires—Avenue, twelve, and Apollo—are a direct result of the open dialog they have with the lighting industry and how they're committed to solving today's unique requirements.

Equally vital is how Focal Point brings products to market, and how well the company services specifiers, contractors, and customers in the process. Because of the firm's significant investments in space, equipment, efficient warehousing, and distribution—and access to low-cost materials—Focal Point is able to offer some of the world's finest architectural lighting luminaires at affordable price points.

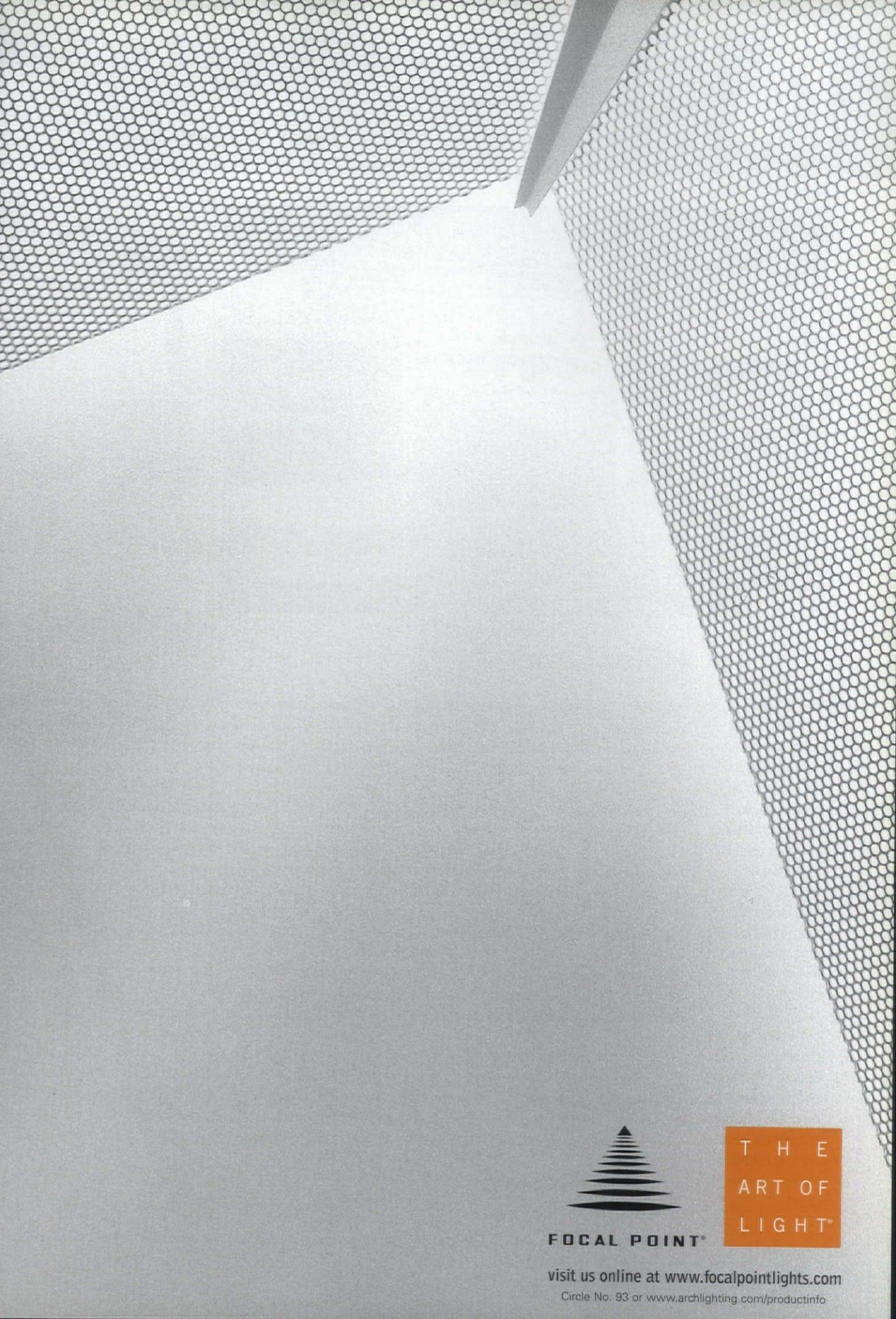
Focal Point is committed to sustainable product design and manufacturing procedures. Continually striving to improve these procedures has been a commitment that began with the founding of the company, more than 10 years ago. Its commitment to the environment is a key component to its manufacturing philosophy—to be a responsible steward of limited natural resources while employing the latest manufacturing technologies to optimize efficiencies.

2006 promises to be an exciting year for Focal Point. Its new hardback catalog, now at 400 pages, exemplifies the company's level of commitment to bringing the absolute best product to its customers. Focal Point continues to grow in new directions while maintaining its commitment to The Art of Light®. □

For more information: (773) 247-9494; [www.focalpointlights.com](http://www.focalpointlights.com)

Photos: Sky Harbor Int'l Airport, Phoenix, Mark Boisclair Photography; (top right) Reception area, Chicago; (bottom right) Open office, Chicago; inset photos by Craig Dugan, Hedrich Blessing.





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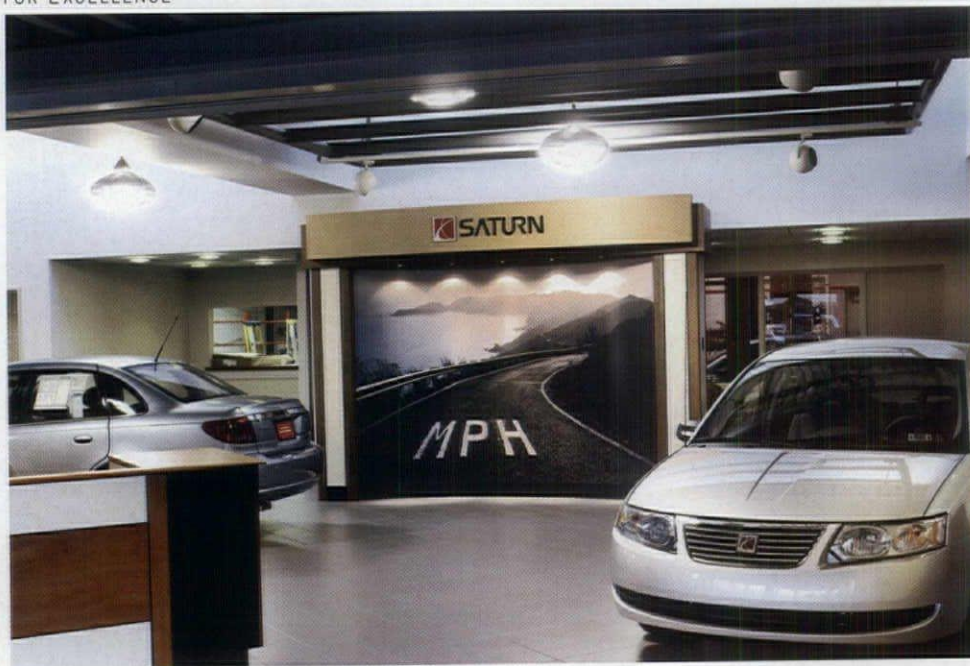
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## Top 30 Manufacturer



## Holophane

### Industry Insight

"For well over a century, the Holophane brand has stood for an unwavering commitment to solving clients' problems," says Zach Gibler, VP of Marketing. "But innovation and excellence doesn't happen in a vacuum; it's a collaboration of many. We thank our customers, designers, specifiers, architects, and engineers for challenging us to build the best lighting fixtures the industry has to offer."

Holophane, a visionary leader in innovative optical design and provider of lighting systems for commercial, industrial, emergency, and outdoor applications for over 107 years, has once again taken innovation and glass manufacturing design to new heights. 2005 marks the unveiling of a bevy of new Holophane product innovations, earmarked both for indoor and outdoor lighting applications.

Holophane's newest introduction, ISD SuperGlass™, or Ideal Synergetic Distribution, is a revolutionary scientific advancement in optical design, thanks to two new reflector designs. With ISD SuperGlass reflectors, the entire Spacing and Mounting Height Ratios (SMHR) are covered with only two reflectors. The new ISDs were developed by Holophane scientists to perform over an expanded range of SMHR's without adjusting the optimized light centers, resulting in 28 percent more efficiency and up to 59 percent energy savings.

Also on the indoor front, Holophane is pleased to introduce a new line of Fluorescent Highbays, the IntelliVue™ and IntelliBay™ with its new patented P.O.L.A.R.™ Technology. P.O.L.A.R., or Passively Optimized Lumen output with Automated Regulation, is a revolutionary passive thermal management system that reduces fluorescent lamp temperature sensitivity over a wide range of room temperatures. Increased illumination levels make it possible for fewer fixtures to light up a given area.

Holophane also introduced two new aesthetically pleasing outdoor product lines in 2005. The Pechina™, a contemporary new entry from Holophane Designer's Group Outdoor, is designed with strong mechanical attributes, and a natural fit for roadway and large-area applications. The MetroVue™ is positioned as a transitional product targeted for boulevard and area lighting applications. Transitional, a new category from Holophane, adds elegance to urban settings where site architecture shifts from historical to modern. □

For more information: [www.holophane.com](http://www.holophane.com)

Photos: The Quad Illuminaire, Reading, PA, Saturn Dealership; (top right) IntelliVue & IntelliBay Fluorescent line; (bottom right) Pechina

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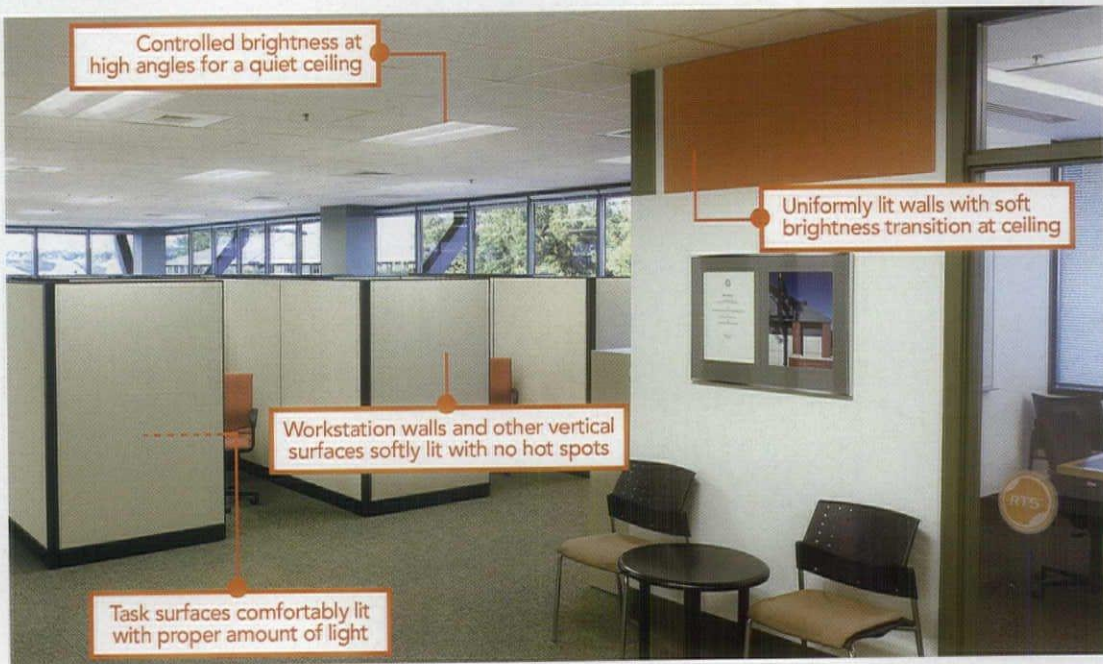
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## Lithonia Lighting

### Industry Insight

With all the distinct benefits of RT5, Lithonia Lighting is confident it is the next generation fluorescent lighting. "RT5 represents a breakthrough in recessed fluorescent lighting because it fills the space with volumetric light while being efficient, affordable, and unobtrusive," says Gary Trott, director of product development for Lithonia Lighting's Fluorescent Group. "It is a new and highly effective way of managing light."

Lithonia Lighting, one of North America's largest manufacturers of lighting equipment, has created a fixture that may very well be one of the industry's most significant advancements in fluorescent lighting. The new fluorescent recessed lighting fixture has been designed to replace standard parabolics with a softer, more comfortable light while using less energy.

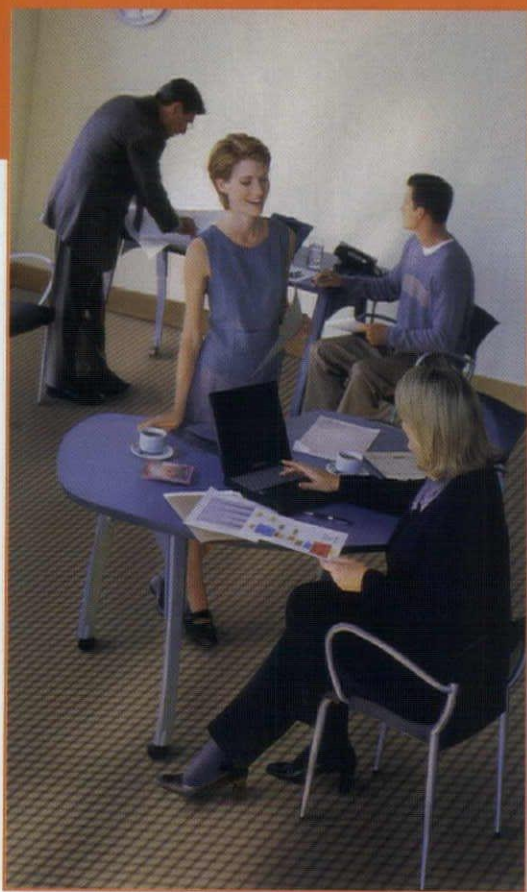
RT5™ Volumetric Recessed Lighting uniformly illuminates the entire volume of the space, eliminating harsh shadows, dark walls, and the "cave effect" arising from the sharp cutoff of parabolics. In addition, the new lighting system uses up to 33 percent less energy than a standard parabolic fixture. According to Gary Trott, director of product development for Lithonia Lighting's Fluorescent Group, RT5 delivers high-quality lighting that fills a space with the right amount of light. Plus, the fixture's high efficiency can easily accommodate stringent energy regulations such as California's Title 24, ASHRAE 90.1, and IECC.

What's the secret behind the fixture's high efficiency? A unique lamp/ballast combination is key. The advanced T5 lamp provides the industry's highest efficiency than standard T5 or T8 lamps. The ballast includes end-of-life sensing and stepped switching bi-level output. This combination helps make the RT5 system the first to achieve up to 100 lumens per watt. No dark spots with RT5, either. While parabolic lighting delivers light primarily to the workplane and avoids sending light into the glare zone, RT5 Volumetric Recessed Lighting provides an even distribution of soft light, eliminating harsh overhead light or the dark spots associated with parabolics. RT5 is an ideal solution for offices, hospitals, retail stores, and other open-plan areas. The fixtures are available in 2'x4', 2'x2' and 1'x4' configurations. □

For more information: (800) 858-7763; [www.lithonia.com/RT5](http://www.lithonia.com/RT5)

Photo: RT5 Volumetric Recessed Lighting creates a well-luminated environment that is both soft and comfortable.

You've filled the space  
with great ideas.  
Now fill it with light.



**INTRODUCING RT5™ VOLUMETRIC RECESSED LIGHTING.** The new standard in recessed fluorescent lighting that's superior to all others. With its innovative luminaire design, RT5 fills the entire volume of space with soft light. So every wall, work surface, and face is comfortably and evenly lit. Helping to create an environment that's both pleasing to the eyes and a pleasure to work in. Choose RT5. And get a lighting fixture that not only delivers light, it delivers visual harmony while providing up to 33% savings in energy. Contact your Lithonia sales representative or visit our website to learn more. **RT5. ENHANCE YOUR ENVIRONMENT™.**



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[www.lithonia.com/RT5](http://www.lithonia.com/RT5) | 1-800-858-7763

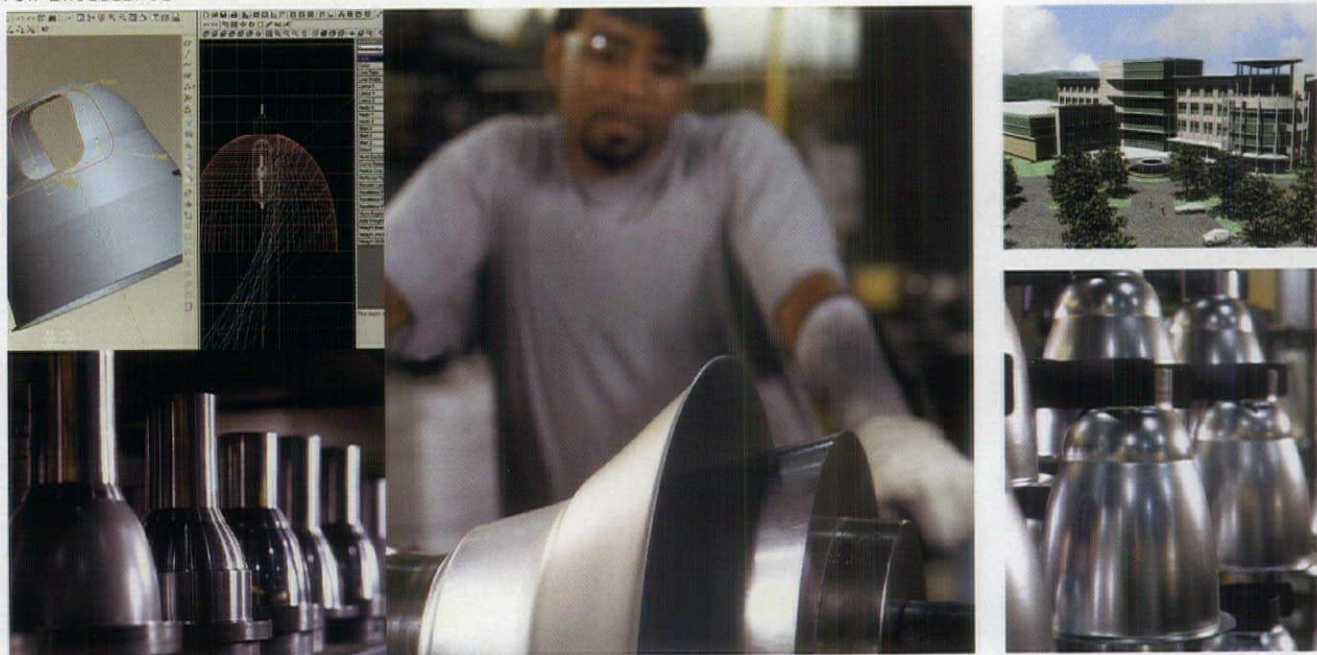
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**EXPERIENCE VOLUMETRIC LIGHTING AT AN RT5 DEMO ROOM!  
VISIT LITHONIA.COM FOR THE NEAREST LOCATION.**



architectural lighting  
**ACE AWARDS**  
 ARCHITECT'S CHOICE  
 FOR EXCELLENCE

# Top 30 Manufacturer



## Prescolite

### Industry Insight

"Today, Prescolite is more active than ever, introducing products at an astonishing pace. We are known for our ease of doing business, as well. As a company, we believe in offering the most advanced services to our customers and forging partnerships based on personalized programs combined with experienced personnel, dependable support, and custom services."

Prescolite, an innovator and leader in recessed, surface, and track lighting, has been designing solutions for its customers throughout its 60-year history. Founders Pres Jones and Wally Runswick focused on developing cutting-edge products and providing superior customer service. The combination proved to be a winning strategy. Early successes include the design of the first downlight with a pre-wired junction box in 1944; the first indoor HID downlight in 1966; the first compact fluorescent recessed downlight in the U.S. in 1982, and the first multi-volt, multi-watt "intelligent" electronic ballast in 1992.

Now a part of Hubbell Lighting, Inc., Prescolite is committed to manufacturing excellence and exceeding customer expectations. Training programs, informative literature, and expert representatives support the company goal of being a leading industry provider of downlighting, track, and surface products.

With luminaires to satisfy even the most demanding applications, Prescolite continues to deliver new products into the marketplace. Whether a commercial contract calls for a large variety of fixtures, or a contractor needs a specific solution for a design/build or residential project, Prescolite provides many high-quality, flexible options.

With more than 800 products available to ship within 24 hours, Prescolite has created a handy Express Pocket Catalog to showcase this valuable service program. This catalog includes ordering instructions and examples, product dimensions, lamp information, application advice, and a convenient index.

Headquartered in Spartanburg, South Carolina, Prescolite markets its products through independent manufacturer's representatives in the United States, Canada, and internationally. □

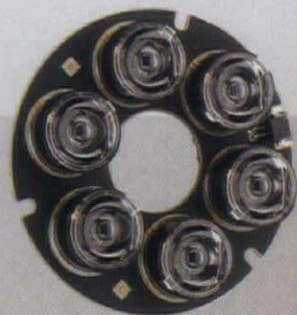
For more information: [www.prescolite.com](http://www.prescolite.com); (864) 599-6059.

Photos: Prescolite's El Dorado, AR, reflector plant; Prescolite will soon reside at Hubbell Lighting Inc.'s new corporate headquarters, in Greenville, South Carolina (top right). Completion is set for late 2006.

# GUIDING LIGHT.

**LiteForms®**

Walk the well-lit path to innovation with Prescolite's LED cylinders. The new LD4 family provides a new solution to achieve illumination patterns on vertical surfaces and paths of egress. Developed based on LED technology, Prescolite specification grade LD4 cylinders are suitable for a wide variety of applications, including building exterior, column, and corridor illumination where maintenance costs are of primary concern. To learn more about Prescolite's innovative 4" LED cylinders, visit [www.prescolite.com](http://www.prescolite.com) or call 888-PRS-4TEC.





architectural lighting  
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FOR EXCELLENCE

## Top 30 Manufacturer



## Tech Lighting, LLC

### Industry Insight

"Our latest T~trak™ addition was the launch of a new white powder coat finish that blends with white ceilings, and will not crack when bent by hand," offers Steve Harriott, Vice President of Sales and Marketing. "For our low-voltage systems like MonoRail, we have looked beyond the world of glass and launched a line of fixtures that turn unexpected materials into stunning lighting designs. It's a great way to consistently offer something new."

Since 1988, Tech Lighting has been the premier choice of architects, lighting designers, interior designers, and homeowners who seek the best in architectural lighting systems. Headquartered outside of Chicago, Tech Lighting is known for combining precision design and high-quality materials to create beautiful, functional lighting. Tech Lighting systems, such as MonoRail, Kable Lite, TwinRail, and FreeJack can be found in lighting showrooms and through sales representatives across North America.

T-trak is the first hand-bendable, line-voltage track lighting system and winner of the Lightfair 2003 Design Excellence Award for most innovative new product. Designed for retail, commercial, and residential applications, T-trak offers architects and designers complete flexibility. It is one of the most complete track system solutions in the market today. T-trak highlights for 2005 include:

- Three new line-voltage heads featuring both ceramic metal halide and incandescent lamplight
- Seven new 2thousand degrees™ pendants to stylize and enhance the T-trak aesthetic
- New white powder coat finish that blends seamlessly with a white ceiling

For its low-voltage product offering, Tech Lighting has looked beyond glass to make a design statement with indoor lighting fixtures. MonoRail is already a recognized leader in low-voltage lighting systems, and Tech Lighting has extended its portfolio of cutting-edge products with a line of stylish fixtures that incorporate unexpected materials like silk, paper, ceramics, and concrete. "There are only so many ways to enhance metal or glass, and most of it has been done before. We want our customers to be excited about the products we provide and the ones we continue to create. The designs should leave customers feeling inspired," says Steve Harriott, vice president of sales and marketing. □

For more information: (800) 522-5315; [www.techlighting.com](http://www.techlighting.com)

Photos: The Slanted Door restaurant integrates T~trak into curves that emulate the curves of the bar; (upper right) T~trak in white presents a great retail solution; (lower right) Tech Lighting's non-glass fixtures (l to r): Summit—metal cone, Fab—Indian silk shade, Roc—concrete shade, Monty—ceramic shade, Powell Street—spun metal dome with color wash, Autumn Wind—paper shade.





Winner of the  
Lightfair Design  
Excellence Award

**~trak™**

Track Lighting with a Twist

a brand of **TECH** Lighting

The first hand-bendable line-voltage  
track lighting system.

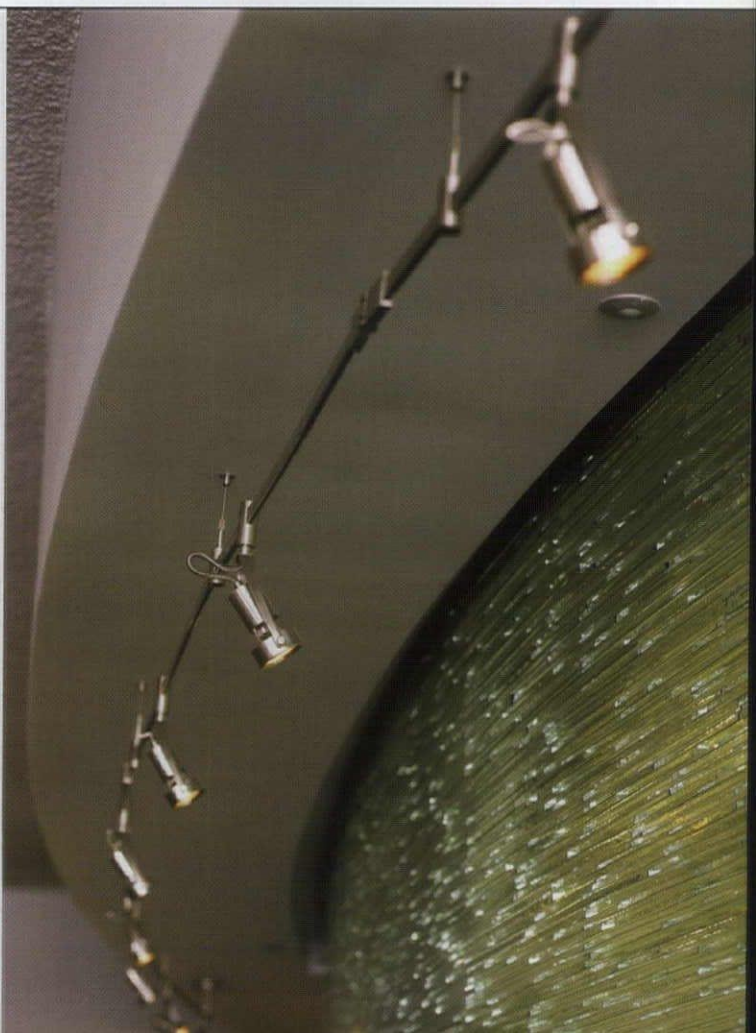
The revolutionary design features a satin nickel  
finish that can be curved in the field to form  
practically any shape. Complete with powerful  
and versatile illumination options, including  
incandescent and ceramic metal halide lamp  
configurations for heads and a host of decorative  
pendant designs. Now available in a white finish.

**~trak** — it's track lighting with a twist.

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Lighting

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prescolite

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While others focus on products, we focus on solutions.

One brand rises above the rest.

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Taking you Above and Beyond.

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# 2005 Lighting Source Directory

ADDRESS LISTINGS	85	INDOOR LUMINAIRES
CATEGORY DIRECTORY	88	LIGHT SOURCES
BALLASTS	90	OTHER
COMPONENTS	90	OUTDOOR LUMINAIRES
CONTROLS	92	SPECIALTY FIXTURES

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airwin.com

AirLight Systems  
Tel: 978-762-6575  
airlightsystems.com

  
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dwparkansky@alanod.com  
www.alanod.com

Alanod is a German-based company serving the international OEM lighting market since 1976. Recognized for quality and innovation, Alanod specializes in the production of surface-coated aluminum for lighting applications. The result of intensive research and development, Alanod produces MIRO, a coated aluminum with up to 98 percent total reflectivity. (See our ad on p. 24.)

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alcorn.com

Alexander-John  
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johnrichard.com

Alexandra Diez  
Tel: 480-970-5550  
alexandradiez.com/cat-v-10

Alexandra Lighting Systems  
Tel: 800-833-0540

Alger Intl.  
Tel: 310-229-9500  
algerco.com

Alico Industries  
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alicoindustries.com

Alkco Lighting  
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alkco.com

ALLscape  
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allighting.com

Alluminare Lighting  
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alluminare.com

ALM  
Tel: 888-446-9137  
almsys.com

Alpan Lighting Products  
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alpan.com

Altman Lighting  
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aitmanltg.com

Alumen 8  
Tel: 760-727-7675  
alumen-8.com

Amber Glow Lighting  
Tel: 303-455-6962  
adb.be

Ambiance Lighting Systems  
Tel: 800-347-5483  
seagullighting.com

Ambience  
Tel: 212-688-0170  
imambience.com

American Acrylic Corp.  
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American Fluorescent Corp.  
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American Glass Light Co.  
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American Power Products  
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AmeriTec Lighting  
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Amerlux Lighting Solutions  
Tel: 973-882-5010  
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Ametrix Lighting  
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ametrixlighting.com

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AMWEI Thermistor Co.  
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AMX Corporation  
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amx.com

Anchor Lighting  
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anchorlighting.com

And Bob's Your Uncle  
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Antares Enterprises  
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Anvil Design Corporation  
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Tel: 201-569-5700  
apmhexseal.com

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Architectural Lighting Works  
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archlighting.com

Architectural Products by  
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Ardee Lighting  
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ardeelighting.com

Ardron-Mackie Limited  
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ardron.com

Aristo Grid Lamp Products  
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aristogrid.com

Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
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arklighting.com

Arkansas Lamp  
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arkansaslamp.com

Aromat Corp.  
Tel: 888-4-AROMAT  
aromat.com

Arroyo Craftsman  
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arroyo-craftsman.com

Art Lighting Gallery  
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Artcraft Lighting  
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artcraftlighting.com

Arte de Mexico  
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Artemide  
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artemide.us

Artemus Lighting  
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artemuslighting.com

Artistic Lighting & Designs  
Tel: 770-209-9449  
artisticlighting.com

Artistic Tile  
Tel: 800-260-8646  
artistic.com

Artlight Creations  
Tel: 305-868-5944  
artlightcreations.com

Ashlar Lamps  
Tel: 905-566-0099

AstraLite  
Tel: 203-775-0172  
astralite.org

Atek Emergency Lighting  
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carpenterlighting.com

Atlantic Ultraviolet Corp.  
Tel: 631-273-0500  
ultraviolet.com

AtLite Lighting  
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cooperlighting.com

Atoglas of Arkema  
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plexiglas.com

ATR Lighting Enterprises  
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bklighting.com



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Barbizon Electric  
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barbizon.com

Bartco Lighting  
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Baselite Corp.  
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baselite.com

Basic Source, The  
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basicsourcelighting.com

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bieberlighting.com

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bigbeam.com

Birchwood Lighting  
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| Bone Simple Design<br>Tel: 212-627-0876<br>bonesimple.com   | C.W. Cole & Company<br>Tel: 626-443-2473<br>colelighting.com                | Charleston Lighting & Mfg.<br>Tel: 800-861-9224<br>charlestonlighting.com  | Coyote Glass Design<br>Tel: 254-947-0002<br>coyoteglass.com   | Davis/Muller Lighting<br>Tel: 888-328-8855<br>davismuller.com   | Designers Lighting & Accessories<br>Tel: 866-637-6200<br>dialighting.com           |
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| Bowers Mfg.<br>Tel: 800-669-9114<br>bowers-mfg.com  | Calger Lighting<br>Tel: 212-689-9511<br>nydc.com/calger                     | Cherry Tree Design<br>Tel: 800-634-3268<br>cherrytreedesign.com            | Christopher Poehmann Studio<br>Tel: 866-597-4800<br>cplighting.com  | Day-O-Lite Manufacturing<br>Tel: 401-467-8232<br>dayolite.com   | Digital Lighting Systems<br>Tel: 877-264-8391<br>digitallighting.com               |
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| Bright Image Corporation<br>Tel: 708-449-5656<br>touchnglow.com   | Carpenter Emergency Lighting<br>Tel: 888-884-2270<br>carpenterlighting.com  | Classic Illumination<br>Tel: 510-849-1842<br>classiciillumination.com      | Crystal Glass Studio<br>Tel: 970-963-3227<br>crystalglassstudio.com   | Deep Landing Workshop<br>Tel: 877-778-4042<br>deeplandingworkshop.com   | Donovan Design Co.<br>Tel: 631-283-8175<br>donovandesign.com                       |
| <br><b>The Brighton Collection</b><br>230 Route 206 Bldg 4 Ste 4<br>Flanders, New Jersey 07836<br>T: 973-598-1580<br>F: 973-598-1583<br>us@brightoncollection.com   | Carter Products Co.<br>Tel: 888-622-7837<br>carterproducts.com              | Classic Lighting Corp.<br>Tel: 904-645-5000<br>classiclitingusa.com        | Crystal Glass Studio<br>Tel: 970-963-3227<br>crystalglassstudio.com   | Del City<br>Tel: 800-654-4757<br>delcity.net  | Donovan Lighting<br>Tel: 607-256-3640<br>donovanlighting.com                       |
| The Brighton Collection is a manufacturer of traditional lighting. The only thing traditional about our lighting is that it is made the traditional way, otherwise our fixtures embrace contemporary designs also. While our strength is to create unique designs for high-volume hospitality trade, we also have a wide range of product line, readily available for instant delivery for architects and designers. (See our ad on p. 92.) | Casa Talamantes<br>Tel: 505-265-2977<br>casatalamantes.com                  | Coemar<br>Tel: 888-987-2266<br>coemar.com                                  | Crownlite Mfg. Corp.<br>Tel: 631-589-9100<br>crownlite.com  | Delray Lighting<br>Tel: 818-767-3793<br>delraylighting.com  | Doug Fleenor Design<br>Tel: 888-4DMX512<br>dfd.com                                 |
|   | Casablanca Fan Co.<br>Tel: 888-227-2178<br>casablancafanco.com              | Color Kinetics<br>Tel: 888-585-5742<br>colorkinetics.com                   | Crystal Glass Studio<br>Tel: 970-963-3227<br>crystalglassstudio.com   | Delta Light<br>Tel: 861-905-0758<br>ssaddle.com/deltalight.htm  | Douglas Lighting Controls<br>Tel: 888-4DMX512<br>douglaslightingcontrol.com        |
|   | Casella Lighting<br>Tel: 888-252-7874<br>claruslighting.com                 | Columbia Lighting<br>Tel: 609-924-7000<br>columbiainlighting.com           | Crystalite Industries<br>Tel: 800-328-5483  | Deltona Lighting Products<br>Tel: 866-562-9787<br>usbaltall.com   | Dove Lighting Systems<br>Tel: 805-541-8292<br>dovesystems.com                      |
|   | Cast Horn Designs<br>Tel: 800-574-3168<br>casthorndesigns.com               | Con-Tech Lighting<br>Tel: 800-728-0312<br>con-techlighting.com             | Crystalite Industries<br>Tel: 800-328-5483  | Derek Marshall<br><i>Sculptural Lighting</i><br><b>Derek Marshall Lighting</b><br>85 Upper Rd.<br>Sandwich, NH 03227<br>T: 603-284-7000<br>F: 866-537-7338<br>info@derekmarshall.com<br>www.derekmarshall.com | Drama Lighting<br>Tel: 716-626-9300<br>dramalighting.com                           |
|   | Cast Lighting<br>Tel: 800-914-CAST<br>cast-lighting.com                     | Conant Custom Brass<br>Tel: 800-832-4482<br>conantcustombrass.com          | Crystorama Lighting<br>Tel: 800-888-4470<br>crystorama.com  | Delta Light<br>Tel: 861-905-0758<br>ssaddle.com/deltalight.htm  | Dreamscape Lighting Mfg<br>Tel: 323-933-5760<br>dreamscapelighting.com             |
|   | Catalina Lighting<br>Tel: 305-558-4777<br>catalinalighting.com              | Concealite<br>Tel: 888-542-4480<br>concealite.com                          | CS Lighting<br>Tel: 800-277-2852<br>cslighting.com  | Deltona Lighting Products<br>Tel: 866-562-9787<br>usbaltall.com   | Dual-Lite/Emerg. Lighting<br>Tel: 203-699-2000<br>dual-lite.com                    |
|   | Cathode Lighting Systems<br>Tel: 800-551-5012<br>cathodelightingsystems.com | Concord Fans and Lighting<br>Tel: 800-677-7326<br>concordfans.com          | CSL/Creative Systems Lighting<br>Tel: 800-533-8769<br>cslighting.com  | Dura Architectural Signage<br>Tel: 800-685-0220<br>duraglow.com   | Dura Fluorescent<br>Tel: 773-271-2800<br>duray.com                                 |
|   | CE Lighting of North America<br>Tel: 805-737-1898<br>landlite.com           | Conservation Lighting Intl.<br>Tel: 215-568-0923                           | Currey & Company<br>Tel: 678-553-1500<br>curreyandcompany.com   | Dura Fluorescent<br>Tel: 773-271-2800<br>duray.com  | DYnamic Ballast Corp.<br>Tel: 866-816-0303<br>dynamicballast.com                   |
|   | CEC Industries<br>Tel: 800-572-4168<br>cecindustries.com                    | Contrast Lighting ML<br>Tel: 888-839-4624<br>contrastlighting.com          | Custom Lighting<br>Tel: 780-463-8014<br>customlighting.com  | Dura Fluorescent<br>Tel: 773-271-2800<br>duray.com  | DYnamic Lighting<br>Tel: 800-364-0098<br>dynamiclighting.com                       |
|   | Ceelite<br>Tel: 215-412-7030<br>ceelite.com                                 | Cooper Lighting<br>Tel: 770-486-4800<br>cooperlighting.com                 | Customlightstyles<br>Tel: 707-547-9909<br>customlightstyles.com   | Dura Fluorescent<br>Tel: 773-271-2800<br>duray.com  | DYnamic Lighting<br>Tel: 800-364-0098<br>dynamiclighting.com                       |
|   | Ceiling Designs<br>Tel: 310-398-4842<br>ceilingdesigns.com                  | CopperMoon<br>Tel: 404-460-7915<br>coppermoon.com                          | CV Lighting<br>Tel: 714-957-4970<br>cvlightingusa.com   | Dura Fluorescent<br>Tel: 773-271-2800<br>duray.com  | DYnamic Lighting<br>Tel: 800-364-0098<br>dynamiclighting.com                       |
|   | Celestial Lighting<br>Tel: 562-802-8811<br>celestiallighting.com            | CopperShades<br>Tel: 205-967-8503<br>copsshade.com                         | Cyclone Lighting<br>Tel: 866-436-5500<br>cyclonelighting.com  | Delux Custom Lighting<br>Tel: 562-806-9671<br>deluxcustomlighting.com   | E-Lite Technologies<br>Tel: 877-502-3951<br>e-lite.com                             |
|   | Centralite Systems<br>Tel: 877-466-5483<br>centralite.com                   | Copperworks Lighting<br>Tel: 210-281-9559<br>cuxlighting.com               | CYRO Industries<br>Tel: 800-631-5384<br>cyro.com  | Denki Corp. of North America<br>Tel: 800-908-8882<br>denkicorp.com  | E-Lite Technologies<br>Tel: 877-502-3951<br>e-lite.com                             |
|   | Century Industries<br>Tel: 514-842-3933<br>centurymadeus.com                | Corbett Lighting<br>Tel: 800-267-2388<br>corbettlighting.com               | <br>D'ac Lighting<br>Tel: 914-698-5959<br>daclighting.com  | Dernier & Hamlyn<br>Tel: 44-20-8760-0900<br>dernier-hamlyn.com  | EasyLite Integrated Lighting Systems<br>Tel: 303-786-7470<br>EasyLiteILS.com       |
|   | CGF Design<br>Tel: 815-285-4044<br>cgfdesign.com                            | Corelite Lighting<br>Tel: 303-393-1522<br>corelite.com                     | Dahlhaus Lighting<br>Tel: 718-218-6651<br>Dahlhaus-Lighting.com   | DeSantis Designs<br>Tel: 703-437-0051<br>desantisdesigns.com  | EBW Electronics<br>Tel: 800-783-0575<br>ebw-electronics.com                        |
|   | Challenger Lighting<br>Tel: 847-717-4700<br>challengerlighting.com          | Cornice Lighting Systems<br>Tel: 866-248-8735<br>cornicelighting.com       | Dainolite<br>Tel: 888-564-1262<br>dainolite.ca  | Design Elements<br>Tel: 917-520-5109<br>designes@snet.net   | Echelon Corp.<br>Tel: 800-258-4566<br>echelon.com                                  |
|   | Chameleon Fine Lighting<br>Tel: 212-355-6300<br>chameleon59.com             | Corona Lighting<br>Tel: 800-727-9262<br>coronalighting.com                 | Dabmar Lighting<br>Tel: 805-604-9090<br>dabmar.com  | Design Guild<br>Tel: 201-229-0200<br>designguild.com  | EchoMail Inc<br>Tel: 617-354-8585<br>EchoMail.com                                  |
|   | Chandelier Parts Company<br>Tel: 218-736-7000<br>chandelierparts.com        | Coronet Chandelier Originals<br>Tel: 631-273-1177<br>coronetchandelier.net | Dahlhaus Lighting<br>Tel: 718-218-6651<br>Dahlhaus-Lighting.com   | Design Within Reach<br>Tel: 800-944-2233<br>dwr.com   | Eclectic Contract Furniture Industries<br>Tel: 888311-6272<br>eclecticcontract.com |
|   | Charles Edwards<br>Tel: 44 20 7736 8490<br>charlesedwards.com               |  |   |   |  |

olite Mfg. Co.  
Tel: 800-755-0555  
olite.com

**ECLIPSE**  
LIGHTING™ INC.

**Eclipse Lighting, Inc.**  
95 West Ivanhoe St  
Miller Park, IL 60176  
Tel: 847.260.0333  
Fax: 847.260.0344  
Email: sales@eclipselightinginc.com  
Customer service:  
support@eclipselightinginc.com

Eclipse Lighting, Inc. designs and manufactures award-winning indoor/outdoor architectural lighting fixtures using the latest technology in fluorescent, HID and induction lamps. We carry a variety of sizes and styles adaptable to custom needs. Many of our fixtures exceed guidelines for light distribution (dark sky) and safety standards (ADA). (See our ad on p. 93.)

Elison Price Lighting  
Tel: 212-521-6900  
elison.com

Energy Controls  
Tel: 902-661-2007  
energy.com

GL Company  
Tel: 800-345-9010 x3927  
www.glcompany.com/architects.htm

Elco  
Tel: 800-852-2217  
elco.com

EA Lighting  
Tel: 800-423-6561  
ea-lighting.com

Elco Lighting  
Tel: 800-522-2626  
elcolighting.com

Elco Elf  
Tel: 707-585-2696  
elcoelf.com

Elco LuminX Lighting  
Tel: 805-445-7750  
luminx.com

**Electrix**  
ILLUMINATION

**Electrix**  
Spring St.  
New Haven, CT 06519-2340  
Tel: 203-776-5577  
Tel: 203-624-7545  
www.electrix.com

Electrix manufacturers a complete line of architectural and specification-grade wall sconces, pendants and linear indirect light fixtures using energy-efficient fluorescent, metal halide, halogen and incandescent lamps. We produce a wide range of linear indirect cove lighting for commercial and institutional applications, as well as custom fixtures. (See our ad on p. 93)

Electrodex  
Tel: 941-753-5663  
electrodex.com

Electrol Engineering  
Tel: 800-347-4875  
electrol.net

Electronic Theatre  
Controls (ETC)  
Tel: 800-688-4116  
etcconnect.com

Electronics Diversified  
Tel: 800-547-2690  
online.com

Element Labs  
Tel: 512-491-9111  
mentlabs.com

Eltra  
Tel: 609-671-9393  
eltrausa.com

El Bohemia/BarDel Intl.  
Tel: 877-422-7335  
elbohemia.com

Elk Lighting  
Tel: 800-613-3261  
elklighting.com

Elliptipar  
Tel: 203-931-4455  
elliptipar.com

Elscos Lighting Products  
Tel: 905-673-2635  
elscolighting.com

Elumina Technology Inc.  
Tel: 866-2-251-74870  
eluminatex.com

eLumit  
Tel: 212-388-0646  
elumit.com

EncapSulite Intl.  
Tel: 877-227-8756  
encapsulite.com

Energetic Lighting Co.  
Tel: 866-492-6566  
energeticlighting.com

Energie Intl.  
Tel: 720-963-8055  
energieighting.com

Engelitelighting  
Tel: 416-504-5483  
engelitelighting.com

Engineered Lighting Products  
Tel: 626-579-0943  
elplighting.com

enLux Lighting  
Tel: 866-365-8453  
enluxled.com

Entertainment Technology  
Tel: 800-223-9477  
etdimming.com

Entourage LA  
Tel: 310-656-0499  
entourage.com

Envel Design Corp.  
Tel: 818-865-8111  
envel.com

ERCO Lighting  
Tel: 732-225-8856  
erco.com

Ergonomic Accessories Intl.  
Tel: 905-764-5228  
ergo1.com

Escort Lighting  
Tel: 800-856-7948  
escortlighting.com

eStar Lighting  
Tel: 321-768-7878  
estarlighting.com

**ESTILUZ**  
ESTILUZ  
Tel: 201-641-1997  
www.estiluz.com  
www.blauet.com

Estiluz was founded in 1969 in Sant Joan de les Abadesses, just outside of Barcelona. Due to unique fixture design, a focus on functionality, superior quality, and user-friendly products, Estiluz has become one of the leading decorative lighting manufacturers in the world. Today we sell to more than 7,000 customers from more than 45 countries. Our mission is to provide you with the best architectural decorative lighting experience available in the market today.

ETC Architectural  
Tel: 800-688-4116  
etcarchitectural.com

Eureka Lighting  
Tel: 514-385-3515  
eurekaling.com

Eurofase  
Tel: 905-695-2055  
eurofase.com

EuroLite  
Tel: 416-203-1501  
eurolite.com

Eurotech Lighting  
Tel: 954-733-1335

Evenlite  
Tel: 800-872-0879  
evenlite.com

Evergreen Lighting  
Tel: 909-865-5599  
evergreenlighting.com

Evergreen Studios  
Tel: 360-352-0694  
evergreenstudios.com

Everlite  
Tel: 866-895-9172  
everlite.us

Excalibur Bronze Sculpture  
Foundry  
Tel: 718-366-3444  
excaliburbronze.com

Excelite  
Tel: 814-943-1155  
excelitelighting.com

Exciting Lighting  
Tel: 415-332-0168  
pam-morris-designs.com

Exhibit and Display Truss  
Tel: 905-509-0331  
exhibitanddisplaytruss.com

Exitronix/Div. of Barron Mfr.  
Tel: 888-533-3948  
exitronix.com

Extex Instruments Corp.  
Tel: 781-890-7440  
extex.com

EYE Lighting Intl.  
Tel: 888-665-2677  
eyelighting.com

**F**  
1st Source Lighting  
Tel: 530-887-1110  
1stsourcelighting.com

555 Design Fabrication  
Tel: 773-869-0555  
555.com

Fabbian USA Corp  
Tel: 718-204-6076  
fabbian.com

FABCO Neon & Cold Cathode  
Fabricating Co.  
Tel: 407-324-5080  
fabconeon.com

Fabulux  
Tel: 718-625-7661  
fabulux.com

FAD Lighting/Delta Light  
Tel: 954-677-9800  
fadlighting.com

Fail-Safe Lighting  
Tel: 770-486-4800  
cooperlighting.com

Fanimation  
Tel: 888-567-2055  
fanimation.com

FarLight  
Tel: 310-830-0181  
farlight.com

FC Lighting  
Tel: 800-900-1730  
fcighting.com

Fiber Optic Designs  
Tel: 215-321-9750  
foreverbright.com

Fiberstars  
Tel: 800-327-7877  
fiberstars.com

Fine Architectural Metalsmiths  
Tel: 888-862-9577  
icforge.com

FineArtLight  
Tel: 314-369-3913  
fineartlight.com

Finelite  
Tel: 510-441-1100  
finelite.com

Fire & Water  
Tel: 212-475-3106  
cyberg.com

Fire Farm  
Tel: 863-245-3515  
firefarm.com

Firefly Lighting  
Tel: 877-634-7335  
fireflylighting.com

Firefly Technology Corp.  
Tel: 770-980-9075  
firefly-technology.com

Fleurs d'Allumage  
Tel: 800-669-8268  
fleursdallumage.com

Flex-A-Lite West  
Tel: 775-677-7711

Flos USA  
Tel: 800-939-3567  
flos.net

Flux Incorporated  
Tel: 206-282-3023  
fluxlights.com

Focal Point  
Tel: 773-247-9494  
focalpointlights.com

Focalor  
Tel: 408-567-9122  
focalor.com

Focus Industries  
Tel: 888-882-1350  
focusindustries.com

Formed Plastics  
Tel: 516-334-2300  
formedplastics.com

Forms+Surfaces  
Tel: 800-451-0410  
forms-surfaces.com

Forum  
Tel: 412-781-5970  
forumlighting.com

Fourteenth Colony Lighting  
Tel: 800-297-9719  
fourteenthcolonylighting.com

Fox Electric Supply  
Tel: 215-425-7280  
foxelectricsupply.com

Friedman Bros. Decorative Arts  
Tel: 800-327-1065  
friedmanbrosmirrors.com

FSC Lighting  
Tel: 800-255-8990  
fscighting.com

Fulham Co.  
Tel: 800-238-5426  
fulham.com

Full Spectrum Solutions  
Tel: 888-574-7014  
paralite.com

Future Light  
Tel: 800-877-2334  
future-light.com

Future Wave Technologies  
Tel: 508-460-3300  
fwsolutions.com

FX Luminaire  
Tel: 800-688-1269  
fxl.com

**G**  
G Lighting  
Tel: 800-331-2425  
glighting.com

G Squared  
Tel: 877-858-5333  
g2art.com

Galbraith & Paul  
Tel: 215-508-0800  
galbraithandpaul.com

Gammalux Systems  
Tel: 909-599-9669  
gammalux.com

GAMProducts  
Tel: 323-935-4975  
gamonline.com

Gardco Lighting  
Tel: 800-227-0758  
sitelighting.com

Garden Light  
Tel: 800-511-2099

Gaslite America West  
Tel: 800-514-6755  
gaslights.com

GE Lighting Systems  
Tel: 800-305-1372  
gelightingsystems.com

Gecko Enterprises  
Tel: 888-334-3256  
geckobulbs.com

  
**Gemini One Five Luminaires**  
Tel: 800-660-2320  
geminione.com

Genesta  
Tel: 519-823-5770  
genesta.com

Geni-Strut  
Tel: 877-650-2572  
geni-strut.com

George King Associates  
Tel: 503-232-6734  
gkalighting.com

Gilbert Industries  
Tel: 800-643-0400  
gilbert.com

Ginger-Motiv  
Tel: 888-469-6511  
gingerco.com; motiv.us

Gladstone Industries  
Tel: 818-365-8466  
gladstoneindustries.com

GLC Lighting  
Tel: 818-240-7698  
gclighting.com

Global Lighting  
Tel: 800-366-6232  
globallighting.com

Glow Lighting  
Tel: 905-479-7688  
glowlighting.com

Glucksman Lighting Products  
Tel: 800-838-8811  
glucksmanlighting.com

Gold Leaf Design Group  
Tel: 877-738-1790  
goldleafdesigngroup.com

Goldcoaster Corp.  
Tel: 416-299-4811  
goldcoaster.ca

Gotham Architectural Lighting  
Tel: 800-315-4982  
gothamlighting.com

Grasslin Controls Corp.  
Tel: 201-825-6696  
grasslin.com

Greenlite Lighting Corporation  
Tel: 514-695-9090  
greenliteusa.com

Griplock Systems/Reutlinger  
Tel: 800-585-1505  
griplocksystems.com

Group One  
Tel: 516-249-3662  
g1limited.com

GSD Productions  
Tel: 516-505-3900  
gsdpro.com

Guth Lighting  
Tel: 314-533-3200  
guth.com

**H**  
H.A. Framburg & Co  
Tel: 800-796-5514  
framburg.com

H.E. Williams  
Tel: 417-358-4065  
hew.com

Hadco  
Tel: 800-331-4185  
hadcolighting.com

Hafele America Co.  
Tel: 800-423-3531  
hafele.com

Haig Lighting  
Tel: 514-336-2085  
haiglighting.com

Halco Lighting Corp.  
Tel: 800-677-3334  
halcolighting.com

Halems  
Tel: 888-878-0222  
halems.com

Hallmark Lighting  
Tel: 818-885-5010  
hallmarklighting.com

Halo Lighting  
Tel: 770-486-4800  
cooperlighting.com

Hammerton  
Tel: 801-973-8095  
hammerton.com

Hampstead Lighting  
Tel: 888-WE-LIGHT  
hampsteadlighting.com

Hanover Lantern  
Tel: 717-632-6464  
hanoverlantern.com

Hanovia UV  
Tel: 908-688-0050  
hanovia-uv.com

Harold's Fine Home Lighting  
Tel: 800-779-2558  
haroldslighting.com

Hasco Lighting  
Tel: 203-531-9400  
hascolighting.com

Hatch Transformers  
Tel: 813-288-8006  
hatchtransformers.com

Haworth  
Tel: 800-344-2600  
smednet.com

Hayes Lighting  
Tel: 310-393-8674  
hayeslighting.com

Heatron  
Tel: 913-651-4420  
heatron.com

Hera Lighting LP  
Tel: 800-336-4372  
heralighting.com

Herbeau Creations of America  
Tel: 800-547-1608  
herbeau.com

Heritage Casting & Ironworks  
Tel: 800-267-3175  
hcolighting.com

Heritage Lanterns  
Tel: 800-648-4449  
heritagelanterns.com

Herwig Lighting  
Tel: 800-643-9523  
herwig.com

HessAmerica  
Tel: 864-487-3535  
hessamerica.com

Hevi Lite  
Tel: 818-710-0728  
hevilite.com

HID Systems  
Tel: 800-356-7389  
hid.com

High Sierra Lighting  
Tel: 800-472-2742  
chaseighting.com

Higuchi USA  
Tel: 800-992-0455  
higuchiusa.com

Hinkley Lighting  
Tel: 800-446-5539  
hinkleylighting.com

Hinson & Co.  
Tel: 718-482-1100

Historical Arts & Casting Inc.  
Tel: 800-225-1414  
historicalarts.com

Hobby Hill Lighting  
Tel: 866-742-5483  
hobbyhill.com

Holophane  
Tel: 740-345-9631  
holophane.com

Holtkötter Intl.  
Tel: 800-899-5444  
holtkoetter.com

Home Automation  
Tel: 800-229-7256  
homeauto.com

Hotelite  
Tel: 800-820-7859  
hotelite.com

House of Troy  
Tel: 800-428-5367  
houseoftroy.com

Howard Industries  
Tel: 800-956-3456  
howard-ballast.com

Hubbardton Forge  
Tel: 800-826-4766  
vforge.com

Hubbell Building Automation  
Tel: 512-450-1100  
hubbell-automation.com

Hudson Valley Lighting  
Tel: 800-814-3993  
hudsonvalleylighting.com

Humanscale  
Tel: 800-400-0625  
humanscale.com

Hunt Dimming  
Tel: 970-484-9048  
huntedimming.com

Hunter Douglas Contract  
Tel: 800-727-8953  
hunterdouglascontract.com

Hunza Lighting USA  
Tel: 310-560-7310  
hunzausa.com

Huvco/The Daylighting Div.  
Tel: 800-832-6116  
huvco.com

Huygen Corp.  
Tel: 815-455-2200  
huygen.com

Hydrel  
Tel: 818-362-9465  
hydrel.com

Hydro-Quip  
Tel: 909-273-7575  
hydroquip.com

Icon Intl.  
Tel: 401-295-2533  
iconintl.net

Idaho Wood  
Tel: 800-635-1100  
idahowood.com

Ideal Electric Mfg. Co.  
Tel: 204-582-2388  
ideal-lighting.com

IEPC Corp.  
Tel: 714-892-4443  
vb1000.com

Intelligent Lighting Controls  
Tel: 800-922-8004  
ilc-usa.com

ILEX Architectural Lighting  
Tel: 800-977-4470  
ILEXLIGHT.com

iLight Technologies  
Tel: 847-328-7800  
ilight-tech.com

Illuminaries  
Tel: 512-401-6600  
illuminaries.com

Illuminating Experiences/Nemo  
Tel: 732-745-5858  
illuminatingexperiences.com

Illumination Management Solutions  
Tel: 949-567-1930  
imsighting.com

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Tel: 866-4PECASO  
pecasolighting.net

Peerless Industries  
Tel: 800-865-2112  
peerlessmounts.com

Pegasus Associates  
Tel: 800-392-4818  
PegasusAssociates.com

Pendant Systems  
Tel: 215-638-8552  
pendantsystems.com

Pennsylvania Globe Gaslight  
Tel: 203-484-7749  
pennglobe.com

Permlight  
Tel: 714-508-0729  
permlight.com

Peter Albrecht Company  
Tel: 800-878-6630  
peteralbrecht.com

Phantom Lighting Systems  
Tel: 800-863-1184  
phantomlighting.com

Philips Lighting (Canada)  
Tel: 905-201-4100  
philips.com

Philips Lighting Co.  
Tel: 800-555-0050  
lighting.philips.com/nam

Phoebus Mfg.  
Tel: 415-550-1177  
phoebus.com

Phoenix Products Company  
Tel: 414-973-3300  
phoenixproducts.com



**Info@phosterlighting.com**  
**www.phosterlighting.com**

Phoster Lighting delivers customized high-brightness LED-lighting solutions and lighting consultation services to the commercial and residential markets. Phoster works closely with lighting designers, architects, specifiers, artists and real estate developers to integrate unique high-brightness LED configurations into intelligent and scalable lighting designs. **(See our ad on p. 94.)**

Photo Research  
Tel: 818-341-5151  
photoresearch.com

PierceMartin  
Tel: 800-334-8701  
pierceMartin.com

Pioneer Lighting  
Tel: 877-424-5483  
pioneerlighting.com



**Planlicht USA**  
**2078 Carolina Place**  
**Fort Mill, SC 29708**  
**Phone: 803 396-1439**  
**Fax: 803 396-1451**  
**Contact: Jack D. Smith**  
**www.planlicht.com**  
**email: jdsmith@usa.com**

Planlicht is a modern lighting company producing line-voltage and low-voltage European-style lighting systems. Products include two Mono-Rail tracks, Dual Road track, Cable track, Pendants, Wall Sconces, Mini Recessed down lights. Line-voltage fixtures include commercial tracks, spotlights, pendant and a new fluorescent profile system using the T5 Lamp.

Plantelier  
Tel: 866-577-7483  
plantelier.com

Plaskolite  
Tel: 800-848-9124  
plaskolite.com

PLC Lighting  
Tel: 800-268-5551  
plclighting.com

PLC Multipoint  
Tel: 866-998-5483  
plcmultipoint.com

PMC Lighting  
Tel: 800-773-4193  
pmclighting.com

Pompeian Manufacturing  
Tel: 914-476-7076  
pompeianmfg.com

Portfolio  
Tel: 770-486-4800  
cooperlighting.com

Power Select  
Tel: 714-901-3900  
reliableballast.com

Preciosa Intl.  
Tel: 562-865-8559  
preciosa.com

Precision Architectural Lighting  
Tel: 713-946-4343  
pal-lighting.com

Precision Projection Systems  
Tel: 562-865-8552  
ppsf.com

Premium Quality Lighting  
Tel: 800-323-8107  
pqlighting.com



**Prescolite**  
**Tel: 864-599-6000**  
**prescolite.com**

Since its founding in 1944, Prescolite has been a prominent force in the lighting industry. Such notable industry advances as indoor HID and compact fluorescent "intelligent" electronic ballasts are all industry firsts pioneered by Prescolite. This leadership continues today with Prescolite at the forefront of recessed, surface and track lighting solutions for commercial and residential applications. **(See our ad on p. 72-73.)**

Prima Lighting Corp.  
Tel: 562-407-3079  
primalighting.com

Primelite Manufacturing Corp.  
Tel: 800-327-7583  
primelite-mfg.com

Prisma North America  
Tel: 866-373-2292  
prismalighting.com

Progress Lighting  
Tel: 864-599-6000  
progresslighting.com

Prolume  
Tel: 800-EXITLED  
prolumeled.com

Promolux Lighting Intl.  
Tel: 800-519-1222  
promolux.com

Prudential Lighting  
Tel: 213-746-0360  
prulite.com

**Q**  
Q-Tran  
Tel: 203-367-8777  
q-tran.com

Qualite Sports Lighting  
Tel: 800-933-9741  
qualite.com

Quozel  
Tel: 631-273-2700  
quozel.com

**R**  
R. Jesse & Company  
Tel: 760-727-8665  
rjessielighting.com

R.A.M. Lighting  
Tel: 905-878-0777  
ramlighting.com

RAB Lighting  
Tel: 888-722-1000  
rabweb.com

Racine Metal-Fab  
Tel: 800-798-6190

Radionic Industries  
Tel: 773-804-0100  
radionic.net

Rambusch Lighting  
Tel: 201-333-2525  
rambuschlighting.com

Raztech Lighting  
Tel: 219-322-8800  
razlight.com

Rebelle Architectural Lighting  
Tel: 604-465-5739  
rebellectlighting.com

Reflective Concepts  
Tel: 866-276-6242  
reflective-concepts.com

Reflexite Display Optics  
Tel: 916-368-9283  
reflexite.com

Regency Ceiling Fan  
Tel: 800-659-5051  
regencyfan.com

Regency Lighting  
Tel: 800-284-2024  
regencylighting.com

Rejuvenation  
Tel: 888-401-1900  
rejuvenation.com

Remains Lighting  
Tel: 212-675-8051  
remains.com

Remcraft Lighting Products  
Tel: 800-327-6585  
remcraft.com

Renaissance Contract Lighting  
Tel: 540-342-1548  
renaissancecontractlighting-furnishings.com

Renoma Lighting  
Tel: 800-569-9529  
renomalighting.com

RENOVA Lighting Systems  
Tel: 800-635-6682  
renova.com

Resolute  
Tel: 206-343-9323  
resoluteonline.com

Restoration Arts  
Tel: 305-576-6677  
restorationarts.com

Richelieu Hardware  
Tel: 800-619-5446  
richelieu.com

RLR Industries  
Tel: 770-948-6069  
rlrind.com

Roberts Step-Lite Systems  
Tel: 800-654-8288  
robertssteplite.com

Robertson Worldwide  
Tel: 800-323-5633  
robertsonww.com

Rock Cottage Glassworks  
Tel: 913-262-0107  
vankeppelartglass.com

Rockefeller Lighting  
Tel: 800-699-2988  
rockefellerlighting.com

Rogers Corp. Durel Div.  
Tel: 480-917-6000  
rogerscorporation.com

Roman Fountains Corp.  
Tel: 800-794-1801  
romanfountains.com

Rosco Laboratories  
Tel: 800-767-2669  
rosco.com

Roy Electric Antique Lighting  
Tel: 908-317-4665  
royelectric.com

Royal Haeger Lamp Company  
Tel: 309-837-9966

RSA Lighting  
Tel: 800-356-3030  
rsalighting.com

RSL Landscape Lighting  
Tel: 800-677-6811  
rslighting.com

Rubi Glass  
Tel: 805-489-1380  
rubiglass.com

Ruud Lighting  
Tel: 800-236-7000  
ruudlighting.com

**S**  
2nd Ave. Design  
Tel: 800-843-1602  
2ndave.com

S & S Picture Lights  
Tel: 800-847-8342  
picturelights.com

S.R.B. Technologies  
Tel: 800-552-0098  
srbtechnologies.com

Sage Lighting  
Tel: 604-904-9533  
members.show.casasagelighting.com

Satco Products  
Tel: 800-437-2826  
satco.com

Scangift  
Tel: 514-421-0064  
scangift.com

Schonbek Worldwide Lighting  
Tel: 800-836-1892  
schonbek.com

Schoolhouse Electric Co.  
Tel: 800-630-7113  
schoolhouseelectric.com

Schott Fiber Optics  
Tel: 508-765-3231  
us.schott.com/fiberoptics

Scientific Lighting Products  
Tel: 800-248-0224  
scientific-lighting.com

Scott Architectural Lighting  
Tel: 707-864-2066  
scottarchlighting.com

Sea Gull Lighting Products  
Tel: 800-347-5483  
seagulllighting.com

Searchspec.com  
Tel: 403-802-1908  
searchspec.com

Sebc Industries  
Tel: 714-557-1710  
sebcindustries.com

Selby Furniture Hardware  
Tel: 800-224-0058  
selbyhardware.com

Selecon USA  
Tel: 410-638-0385  
ardislight.com

Self-Powered Lighting  
Tel: 800-777-9399  
self-powered.com

Sentry Electric  
Tel: 516-379-4660  
sentrylighting.com

Sexton Lighting  
Tel: 203-847-4014

SF Designs  
Tel: 877-470-9615  
sf-designs.com

Shakespeare Composite  
Structures  
Tel: 800-800-9008  
skp-cs.com



**SELUX Corporation**  
**5 Lumen Lane**  
**Highland, NY 12528**  
**T: 845-691-7723**  
**F: 845-691-6749**  
**seluxus@selux.com**  
**www.selux.com/usa**

Manufacturer of Interior and Exterior Architectural Lighting Systems. In collaboration with international partners, SE'LUX products provide creative, original lighting solutions. Our NY manufacturing facility supports our global perspective with the strength of American manufacturing. **(See our ads on pp. 94 and Cover 4.)**

**Semper Fi Power Supply**  
**21 W. Auburn St.**  
**Manchester, NH 03101**  
**T: 603-656-9729**  
**F: 603-656-9752**  
**info@semperfipowersupply.com**  
**semperfipowersupply.com**

Semper Fi Power Supply manufactures UL-Listed indoor outdoor remote transformers to ensure no noise, no maintenance and full light output. Indoor units can be recessed into an insulating wall with up to eight transformers in an enclosure. Outdoor transformers include above-ground stainless or direct burial. **(See our ads on pp. 18 and 94)**

Shaper Lighting Lighting  
Tel: 510-234-2370  
shaperlighting.com

Shat-R-Shield  
Tel: 800-223-0853  
shat-r-shield.com

Shelburne Lighting  
Tel: 603-466-2201  
shelburnelighting.com

Shell Light  
Tel: 877-777-4355  
shelllight.com

Side-Lite  
Tel: 800-480-4848  
sidelite.com

Signal-Tech  
Tel: 877-547-9900  
signal-tech.com

Siltron Emergency Systems  
Tel: 800-874-3392  
siltron.com

Simkar Corp.  
Tel: 800-523-3602  
simkar.com

Sinclair Glass  
Tel: 317-581-9679  
sinclairglass.com

Sirmos  
Tel: 718-786-5920  
sirmos.com

Sistemalux  
Tel: 916-772-7800  
sistemalux.com

SLI Lighting  
Tel: 800-922-6693  
sli-lighting.com

SloanLED  
Tel: 888-747-4LED  
SloanLED.com

Smart Industries  
Tel: 800-658-8945  
twilightlighting.com

Smedmarks  
Tel: 920-751-0323  
smedmarks.com

Smith-Victor Corporation  
Tel: 800-682-7668  
smithvictor.com

SNOC  
Tel: 800-461-7662  
snoc.net

So-Luminaire Daylighting  
Tel: 800-676-5276  
so-luminaire.com

Soft Lighting Systems  
Tel: 888-789-7638  
softlite.com

Solar Electric Power Co.  
Tel: 888-833-3220  
sepconet.com

Solar Light Company  
Tel: 215-517-8700  
solarlight.com

SolarOne Solutions  
Tel: 877-527-6461  
SolarOne.net



atube Intl.  
Tel: 800-966-7652  
atube.com

ux Design  
Tel: 512-927-6589  
luxdesign.com

nia America  
Tel: 954-572-5454  
nia-sa.com

S Lighting Devices  
Tel: 215-423-7077

ace Lighting  
Tel: 305-373-4422  
acelighting.com

uilding/Hubbell Lighting  
Tel: 513-541-3486  
buildinglighting.com

pecial FX Lighting  
Tel: 435-635-0239  
light.com

pecial FX provides high-quality  
ustom-manufactured permanent  
roducts for all types of  
ighting design projects including  
ard-winning DichroX lenses  
EZ Glass lenses, FadeoNot  
or gel, color polycarbonate,  
d FadeoNot poly sleeves for  
lar and compact fluorescent  
ures, including HD solutions.  
roducts are tested and  
aranteed.

pecial Lite Products Co.  
Tel: 800-365-0511  
pecialliteproducts.com

pecial-T Lighting  
Tel: 818-954-9840  
com

pecialty Lighting  
Tel: 704-482-3416  
pecialtylighting.com

ectra Cine  
Tel: 818-954-9222  
ectracine.com

pectrum Lighting  
Tel: 508-678-2303  
ecolight.com

erlich Art Glass /Lichtmehr  
Tel: 786-388-7522  
erlich.com

Lighting  
Tel: 262-242-1420  
lighting.com

Systems  
Tel: 888-546-2599  
controls.com

rtlite  
Tel: 623-930-0074  
artlite.com

ing City Electrical Mfg.  
Tel: 610-948-4000  
ingcity.com

Louis Antique Lighting  
Tel: 314-863-1414  
co.com

coswitch  
Tel: 714-549-3041  
coswitch.com

re Lighting  
Tel: 800-443-8823  
firelighting.com

p 1 Dezigns  
Tel: 800-822-8527  
p1lighting.com

rling Products  
Tel: 973-471-2858  
rnet.com

rnberg Lighting  
Tel: 800-621-3376  
rnberglighting.com

Sterner Lighting  
Tel: 864-599-6000  
sternerlighting.com

Steven Handelman Studios  
Tel: 805-962-5119  
stevenhandelmanstudios.com

Stingray Lighting  
Tel: 888-577-8464  
stingraylighting.com

Stonco Lighting  
Tel: 800-334-2212  
stoncolighting.com

Stone County Ironworks  
Tel: 800-223-4722  
stoneiron.com

Stone Manor Lighting  
Tel: 888-534-0544  
stonemanorlighting.com

StoneAge Lighting Creations  
Tel: 877-277-5177  
stoneagelight.com

Stonegate Designs  
Tel: 269-429-8323  
stonegatedesigns.com

Strong Entertainment Lighting  
Tel: 402-453-4444  
strong-lighting.com

Studio Italia Design USA  
Tel: 305-463-0906  
studioitaliadesign.com

Studio Steel  
Tel: 860-868-7305  
studiosteel.com

Stylmark  
Tel: 800-328-2495  
stylmark.com

Sun Pipe Co.  
Tel: 800-844-4786  
sunpipe.com

Sunled Corporation  
Tel: 866-SUN-LEDS  
sunled.com

Sunlite Mfg.  
Tel: 718-768-7000  
sunshinelighting.com

Sunnex  
Tel: 800-445-7869  
sunnexonline.com

Sunpark Electronics Corp.  
Tel: 866-478-6775  
sunpkco.com

Sunset Lighting and Fans  
Tel: 800-346-1380  
sunsetlightingandfans.com

Super Vision Intl.  
Tel: 407-857-9900  
svision.com

Superior Electric  
Tel: 800-787-3532  
superiorelectric.com

Sure-Lites Lighting  
Tel: 770-486-4800  
cooperlighting.com

Swivelier  
Tel: 845-353-1455  
swivelier.com

Swon Design  
Tel: 514-761-6868  
swondesign.com

Sylvan Designs  
Tel: 800-350-8869  
sylvandesigns.com

**T** 20th Century Lighting  
Tel: 310-581-1923  
20thCenturyLighting.com

3Form  
Tel: 801-977-0400  
3-form.com

TAC/Tour Andover Controls  
Tel: 866-TAC-INFO  
tac.com

Tahoe Lighting  
Tel: 888-LIT-TAHOE  
tahoelighting.com

Tai Pan Lighting Company  
Tel: 800-667-1858  
taipan-lighting.com

Talisman Glass  
Tel: 541-935-8700  
talismanglass.com

Tango Lighting  
Tel: 888-748-2646  
tangolighting.com

Targetti North America  
Tel: 714-957-4950  
targettiusa.com

Task Lighting Corp.  
Tel: 800-445-6404  
tasklighting.com

Tazz Lighting  
Tel: 888-466-8299  
tazzlighting.com

Tech Lighting  
Tel: 800-532-5315  
techlighting.com

TechBrite  
Tel: 800-246-9977  
techbrite.com

Techlight Manufacturing  
Tel: 800-225-0727  
techlightusa.com

Techni-Lite Systems  
Tel: 800-730-5853  
techni-lite.com

Techni-Lux  
Tel: (407) 857-8770  
techni-lux.com

Technical Consumer Products  
Tel: 800-324-1496  
tcpi.com

Teka Illumination  
Tel: 805-434-3511  
teka-illumination.com

Teledyne Lighting  
Tel: 800-784-3484  
teledynelighting.com

Tempo/Infiniti Lighting  
Tel: 800-433-6249  
tempolighting.com

Tensor Corp.  
Tel: 800-USALAMP  
tensorlamp.com

Teron Lighting  
Tel: 877-893-6296  
teronlight.com

TerraDek Lighting  
Tel: 800-609-1130  
terraдек.com

Terzani USA  
Tel: 866-TERZANI  
terzani.com

The Bast Road Collection  
Tel: 802-394-7715  
bastroad.com

The Bodine Co.  
Tel: 800-223-5728  
bodine.com

The Brighton Collection  
Tel: 973-598-1580  
brightoncollection.com

The Federalist  
Tel: 803-625-4727  
thefederalistonline.com

The Light Edge  
Tel: 503-968-9968  
thelightedge.com

The Lighting Edge  
Tel: 860-767-8968  
lightingedge.com

The Midtowne Group/Paver Light  
Tel: 772-337-5470  
paverlight.com

The Modern Fan Company  
Tel: 888-588-3267  
modernfan.com

The Original Cast Lighting  
Tel: 314-863-1899  
OCL.com

Theatrical Lighting Systems  
Tel: 256-533-7025  
tts.com

THHC Lighting  
Tel: 877-XELOGEN  
xelogen.com

Thin-Lite Corp.  
Tel: 805-987-5021  
thinlite.com

Thomas Contract Lighting  
Tel: 800-365-4448  
thomaslighting.com

Thomas Research Products  
Tel: 888-877-4456  
thomasresearchproducts.com

Times Square Lighting  
Tel: 888-947-3034  
tslight.com

TIR Systems  
Tel: 877-340-2036  
tirsys.com

TMS Lighting  
Tel: 866-793-1174  
tmslighting.com

Tokistar Lighting  
Tel: 877-340-7633  
tokistar.com

Tomcat USA  
Tel: 432-694-7070  
tomcatglobal.com

Top Brass Lamps  
Tel: 800-359-4135

Topaz Lighting Corp.  
Tel: 800-666-2852  
topaz-usa.com

Tork  
Tel: 914-664-3542  
tork.com

Touch-Plate Lighting Controls  
Tel: 260-426-1565  
touchplate.com

Toyo Trading Co.  
Tel: 800-669-8696  
toyotradingco.com

TPR Enterprises  
Tel: 914-698-1141  
tprights.com

Trans-Lite  
Tel: 203-878-8567  
trans-lite.com

Translite Sonoma  
Tel: 888-999-4540  
translitesonoma.com

Traxon USA  
Tel: 212-736-2286  
traxon-usa.com

Trend Lighting Corp.  
Tel: 626-480-8880  
tlighting.com

Triarch Industries  
Tel: 800-874-2724  
triarchindustries.com

Tridonic  
Tel: 866-874-3664  
tridonicatco.com

Trinity Lighting  
Tel: 888-972-1177  
trinitylighting.com

Trulite Louvre Corp.  
Tel: 866-TRULITE

Tubular Skylight  
Tel: 800-315-8823  
tubular-skylight.com

Tungda Electrical & Lighting  
Tel: 852-2592 3888  
tungdalighting.com

Two Hills Studio  
Tel: 800-239-5530  
twohillsstudio.com

U.S. Energy Sciences  
Tel: 800-637-1629  
usenergysciences.com

Udec Corp.  
Tel: 800-990-8332  
udeccorp.com

UltraGlas  
Tel: 800-777-2332  
ultraglas.com

Ultralights Architectural Lighting  
Tel: 866-623-9829  
ultralightslighting.com

Ultrasave Lighting Limited  
Tel: 866-733-9217  
ultrasave.ca

Ultratec Fibre Optic  
Tel: 541-683-8268  
ultratecfibre.com

Unlight  
Tel: 800-361-0472  
unlight.com

Unique Lighting Systems  
Tel: 800-955-4831  
uniquelighting.com

Universal Fixture Mfg. Co.  
Tel: 800-228-5260  
universalfixture.com

Universal Lighting Technologies  
Tel: 800-BALLAST  
universallballast.com

Urban Archaeology  
Tel: 212-431-4646  
urbanarchaeology.com

Sun Valley Lighting  
Tel: 800-877-6537  
usaltg.com

US Lighting  
Tel: 877-USLITES  
uslighting.us

USA Illumination  
Tel: 845-565-8500  
usaillumination.com

Ushio America  
Tel: 714-229-3173  
ushio.com

Uspar Enterprises  
Tel: 909-591-7506  
uspar.com

Uttermost Co.  
Tel: 800-678-5486  
uttermost.com

**V** Valmont Industries  
Tel: 800-825-6668  
valmont.com

ValueLight.com  
Tel: 800-495-2677  
valuelight.com

Van Teal Lighting  
Tel: 305-751-6767  
vanteal.com

Vantage Luminaires  
Tel: 860-564-4512  
vantageitg.com

Velux America  
Tel: 800-888-3589  
veluxusa.com

Venture Lighting Intl.  
Tel: 800-451-2606  
venturelighting.com

Verilux  
Tel: 800-786-6850  
verilux.net

Versailles Lighting  
Tel: 888-564-0240  
versailleslighting.com

Vertex Lighting  
Tel: 866-338-0123  
vertexlighting.com

VGK Lighting  
Tel: 888-612-4181  
vgklighting.com

Vibia  
Tel: 800-330-3231  
vibialight.com

Victor Illuminating  
Tel: 800-982-6162  
victorilluminating.net

Victorian Lighting Works  
Tel: 800-622-1898  
vlworks.com

Vintage Hardware  
Tel: 360-777-9030  
vintagehardware.com

Virginia Metalcrafters  
Tel: 800-368-1002  
virginiametalcrafters.com

Visa Lighting  
Tel: 800-788-VISA  
visalighting.com

Visio Lighting  
Tel: 941-755-6694  
visiolighting.com

Vision3 Lighting  
Tel: 559-834-5749  
vision3lighting.com

Visionaire Lighting  
Tel: 310-512-6480  
visionairelighting.com

Visioneering Corp.  
Tel: 416-245-7991  
viscor.com

Vista Lighting  
Tel: 800-576-2135  
vistalighting.com

Vista Prof. Outdoor Lighting  
Tel: 800-766-8478  
vistapro.com

Visual Lighting Technologies  
Tel: 949-581-9398  
visual-lighting.com

**VS VOSSLÖH SCHWABE**  
**Vossloh-Schwabe**  
Tel: 888-427-6628  
vossloh-schwabe.com

As of July 2005, we at Vossloh-Schwabe, Inc and the lighting division of Aromat Corp. joined forces to expand our product portfolio. Now, under the brand name, Vossloh-Schwabe and with an uncompromising commitment to excellence we are able to offer "one-stop shopping" for you entire high-performance lighting system component needs.

**W** W.A.C. Lighting Co.  
Tel: 800-526-2588  
wacilighting.com

Waldmann Lighting Co.  
Tel: 800-634-0007  
waldmannlighting.com

Warner Power  
Tel: 603-456-3111  
warnerpower.com

Waterford/Wedgwood USA  
Tel: 800-677-7860  
waterford-usa.com

Watt Stopper/Legrand  
Tel: 800-879-8585  
wattstopper.com

We-ef Lighting USA  
Tel: 412-749-1600  
we-ef.com

Welch Allyn Lighting Products  
Tel: 315-685-4347  
welamp.com

Wendelighting  
Tel: 800-528-0101  
wendelighting.com

Westinghouse Lighting  
Tel: 800-999-2226  
westinghouselighting.com

WF Harris Lighting  
Tel: 800-842-9345  
wharrislighting.com

Wide-Lite  
Tel: 800-235-2314  
wide-lite.com

Wila Lighting  
Tel: 714-546-8999  
wila.com



FOR COMPARATIVE COMPANY SEARCHES, CLICK ON SOURCE DIRECTORY AT ARCHLIGHTING.COM

# 2005 Lighting Category Directory

## Wever & Ducre

**Wever & Ducre**  
2078 Carolina Place  
Fort Mill, SC 29708  
Phone: 803-396-1439  
Fax: 803-396-1451  
Contact: Jack D. Smith  
www.wever-ducre.com  
email: jdsmith@usa.com

Wever & Ducre is a European company producing modern architectural lighting products, and is known throughout the world as a leader in innovative design and quality. The product range includes a large variety of interior and exterior Spotlights, Ceiling and Wall Sconces, Recessed lighting and fluorescent profile.

Wild West Designs  
Tel: 435-654-4151  
wildwestdesigns.com

Wildfire  
Tel: 800-937-8065  
wildfirefx.com

Wildwood Lamps & Accents  
Tel: 252-446-3266  
wildwoodlamps.com

Wilshire Mfg. Co.  
Tel: 800-443-4695  
wilshiremfg.com

Winona Lighting  
Tel: 800-328-5291  
winonalighting.com

Woodhead Industries  
Tel: 800-825-7824  
woodhead.com

Wunderley  
Tel: 724-850-9616  
wunderley.com

Wybron  
Tel: 800-624-0146  
wybron.com

**X**  
Xenon Corp.  
Tel: 978-661-9033  
xenoncorp.com

Xilver B.V.  
Tel: +31(0) 434085100  
xilver.nl

**Y**  
Yamagiwa USA Corp.  
Tel: 888-879-8611  
yamagiwausa.com

**Z**  
Zadro Products  
Tel: 800-468-4348  
zadro.com

Zaneen Lighting  
Tel: 800-388-3382  
zaneen.com

Zumtobel Staff Lighting  
Tel: 800-932-0633  
zumtobelstaff.us

## BALLASTS

### FLUORESCENT

A.L.P. Lighting  
Components  
AC Electronics  
Access Lighting  
Advance  
AH Lighting  
American Acrylic Corp.  
Antares Enterprises  
Aqua Creations USA  
Artlight Creations  
B+L Technologies  
Barizon Electric  
Bulbtronics  
Chloride Systems  
CE Lighting of North America  
CS Lighting  
Dabmar Lighting  
Denki Corp. of North America  
EasyLite Integrated Lighting  
EBW Electronics  
Electro Eif  
EncapSuite Intl.  
Energetic Lighting Co.  
FAD Lighting/Delta Light  
Fulham Co.  
Full Spectrum Solutions  
Future Wave Technologies  
Glucksman Lighting Products  
Gressman Supply Co.  
Halco Lighting Corp.  
Hatch Transformers  
Howard Industries  
IEPC Corp.  
Incon Lighting  
Interlectric Corporation  
Janmar Lighting  
Justice Design Group  
K-Tronik Ballasts  
LECS Worldwide  
Light Craft Mfg.  
Lighting & Electronic Design  
Lighting & Power Source  
Lichtspann Illumination  
Lite Tech  
Lutron Electronics Co.  
MaxLite  
Niagara Conservation Corp.  
Nite Lites  
Northwest Lighting Systems  
Nutech Lighting Corp.  
Osram Sylvania  
Pacific Lighting & Electrical  
Philips Lighting  
(Canada)  
Plantefier  
Pompeian Manufacturing  
Power Select  
Premium Quality Lighting  
Radionic Industries  
Regency Lighting  
Robertson Worldwide  
Sage Lighting  
Satco Products  
Schoolhouse Electric  
Sexton Lighting  
Side-Lite  
Specialty Lighting  
SPI Systems  
Sternberg Lighting  
Sunlite Mfg.  
Sunpark Electronics  
TCP  
Techni-Lite Systems  
The Designers Edge  
Thin-Lite Corp.  
TMS Lighting  
Topaz Lighting Corp.  
Tridonic  
Tubular Skylight  
Tungda Electrical & Lighting  
Udec Corp.  
Ultravase Lighting

Limited  
Universal Lighting Technologies  
Uspar Enterprises  
Vossloh-Schwabe  
Woodhead Industries  
Zadro Products

### EMERGENCY

A.L.P. Lighting  
Components  
Advance  
Bulbtronics  
Carpenter Emerg. Lighting  
Chloride Systems  
Cooper Lighting  
Deco Lighting  
Dual-Lite/Emerg Lighting Div.  
E-Lite Technologies  
Evanlite  
Extronix/Div. of Barron Mfr.  
Fulham Co.  
IEPC Corp.  
Invue Lighting Systems  
IOTA Engineering  
LEDtronics  
Lightworld.com  
Lumark  
McGraw-Edison  
Mule Lighting  
Nutech Lighting Corp.  
Pompeian Manufacturing  
Portfolio  
Regency Lighting  
Side-Lite  
Sunlite Mfg.  
Sure-Lites  
The Bodine Co.  
Topaz Lighting Corp.  
Udec Corp.  
Universal Lighting Technologies

### HIGH/LOW-PRESSURE SODIUM

AC Electronics  
AH Lighting  
Advance  
Dabmar Lighting  
Deco Lighting  
Deltona Lighting  
EncapSuite Intl.  
EYE Lighting Intl.  
Future Wave Technologies  
GE Lighting Systems  
Halco Lighting Corp.  
HID Systems  
Holophane  
Howard Industries  
IEPC Corp.  
Incon Lighting  
Interlectric Corporation  
Lighting & Power Source  
Lite Tech  
Northwest Lighting Systems  
Osram Sylvania  
Pacific Lighting & Electrical  
Philips Lighting  
(Canada)  
Plantefier  
Pompeian Manufacturing  
Power Select  
Premium Quality Lighting  
Radionic Industries  
Regency Lighting  
Robertson Worldwide  
Sage Lighting  
Satco Products  
Schoolhouse Electric  
Sexton Lighting  
Side-Lite  
Specialty Lighting  
SPI Systems  
Sternberg Lighting  
Sunlite Mfg.  
The Designers Edge  
Thomas Research Products  
Topaz Lighting Corp.  
Ultravase Lighting  
Limited  
Universal Lighting Technologies  
Venture Lighting Intl.  
Vossloh-Schwabe

### LOW-VOLTAGE TRANSFORMERS

Access Lighting

Advance  
B & N Industries  
B+L Technologies  
Basler Electric Company  
Brownsburg Electronik  
Cast Lighting  
Dabmar Lighting  
EuroLite  
FX Luminaire  
Garden Light  
Glucksman Lighting Products  
Hadco  
Hampstead Lighting  
Hatch Transformers  
Innovative Lighting  
Intermatic  
Justin  
Light Waves Concept  
Lighthouse Electronics  
Lighting & Electronic Design  
Louie Lighting  
Mepia-Alfit  
Miller O.E.M. Supplies  
National Specialty Lighting  
Nightscaping By Lorain  
O'Ryan Industries  
Philips Lighting (Canada)  
Power Select  
Q-Tran  
Robertson Worldwide  
RSL Landscape Lighting  
Sebcu Industries  
Semper Fi Power Supply  
Special Lite Products  
Sunlite Mfg.  
Targett North America  
Techlight  
Manufacturing  
TerraDek Lighting  
Times Square Lighting  
Topaz Lighting Corp.  
Unique Lighting Systems  
Wila Lighting

### MERCURY

Advance  
AH Lighting  
Brandon Industries  
Deltona Lighting  
Products  
EYE Lighting Intl.  
Future Wave Technologies  
GE Lighting Systems  
Gressman Supply Co.  
Hanovia UV  
HID Systems  
Holophane  
IEPC Corp.  
Northwest Lighting Systems  
Osram Sylvania  
Pacific Lighting & Electrical  
Philips Lighting (Canada)  
Robertson Worldwide  
Sexton Lighting  
Sunlite Mfg.  
Techlight  
Manufacturing  
The Designers Edge  
Topaz Lighting Corp.  
Ultravase Lighting  
Limited  
Universal Lighting Technologies

### METAL HALIDE

AC Electronics  
Advance  
AH Lighting  
Aromat Corp.  
Brandon Industries  
Dabmar Lighting  
De Sisti Lighting  
Deco Lighting  
Deltona Lighting  
Products  
DYNamic Ballast Corp.  
EncapSuite Intl.

EYE Lighting Intl.  
Flex-A-Lite West  
Fulham Co.  
Future Wave Technologies  
Halco Lighting Corp.  
Hanovia UV  
Hatch Transformers  
HID Systems  
Holophane  
Howard Industries  
IEPC Corp.  
Incon Lighting  
Interlectric Corporation  
Janmar Lighting  
KLS Electronics/Lamp Solutions  
Lightech Electronics  
Lighting & Power Source  
Lite Tech  
Metrolight  
Northwest Lighting Systems  
Osram Sylvania  
Pacific Lighting & Electrical  
Philips Lighting (Canada)  
Pompeian Manufacturing  
Power Select  
Premium Quality Lighting  
Robertson Worldwide  
RSL Landscape Lighting  
SLI Lighting  
Special Lite Products  
Strong Lighting  
Sunlite Mfg.  
Sunpark Electronics  
Techlight  
Thomas Research Products  
Times Square Lighting  
TMS Lighting  
Topaz Lighting Corp.  
Tridonic  
Ultravase Lighting  
Limited  
Universal Lighting Technologies  
Venture Lighting Intl.  
Vossloh-Schwabe  
Warner Power

### COMPONENTS

LED DRIVERS  
Heatron  
Lightech Electronics

### OPTICAL PARTS

A.L.P. Lighting  
Components  
ABET  
Acnilux  
Aland - GmbH & Co.  
Aluminum Coil  
Anodizing  
American Acrylic Corp.  
American Louver Co.  
Anderson Glass Co.  
APM Hexseal Corp.  
Apollo Design  
Technology  
Architectural Energy Corp.  
Atoglas of Arkema  
Brandon Industries  
Bunzl Extrusion  
Columbia  
Carley Lamps  
Crownlite Mfg. Corp.  
CYRO Industries  
Dialight Corporation  
Diversified Lighting  
Diffusers  
Ecolite Mfg. Co.  
Elumina Technology Inc  
Formed Plastics  
GAMProducts  
Genesta  
Gressman Supply Co.  
Hadco  
Heatron  
Holophane

Icon Intl.  
Illumination  
Management Solutions  
Independent Testing Laboratories  
Inspired Sales  
Inter-Global  
Kingbright Corp.  
Kopp Glass  
Lamina Ceramics  
Lancaster Glass  
LEE Filters  
Legion Lighting Co.  
LexaLite Intl. Corp.  
LICONA  
Lighting Technologies  
Louvers Intl.  
Mica Lighting Company  
Mitronix  
MSC Prefinish Metals  
Ocean Optics  
Optikinetics Limited  
Opto Technology  
OSRAM Opto Semiconductors  
Paraflex Lighting  
Phoebus Mfg.  
Plaskolite  
Racine Metal-Fab  
Reflective Concepts  
Reflexite Display Optics  
RLR Industries  
Rosco Laboratories  
Scientific Lighting Products  
Sinclair Glass  
Solar Light Company  
Special FX Lighting  
Spectrum Lighting  
Sterling Products  
TechBrite  
Teledyne Lighting  
UltraGlas  
Ultratec Fibre Optic  
Vertex Lighting  
Vision3 Lighting

### POLES/MOUNTING DEVICES

AMWEI Thermistor Co.  
Anchor Lighting  
Arakawa Hanging Systems  
Architectural Area Lighting  
Beacon Products  
Bieber Lighting Corp.  
Boston Retail Products  
Bowers Mfg.  
Brandon Industries  
Brown Wood Products Co.  
California Tool & Die  
Catalina Lighting  
Cooper Lighting  
Cyclone Lighting  
Dahlha  
Dynamic Lighting  
Eclectic Contract  
Furniture Industries  
Exhibit and Display  
Truss  
Flex-A-Lite West  
Gaslite America West  
GE Lighting Systems  
Griplock  
Systems/Reutlinger  
Hadco  
Hanover Lantern  
Heritage Casting & Ironworks  
Hevi Lite  
Holophane  
Innovative Office Products  
Invue Lighting Systems  
James Thomas Engineering  
Joslyn Hi-Voltage  
Kim Lighting  
Lawrence Metal Products  
Lithonia Lighting  
LOTI Corporation  
Lumark  
Lumca  
Lumec  
Lumiere Lighting  
Lyte Poles

Matthews Studio  
Equipment  
McGraw-Edison  
Lighting  
Metormic Corp.  
Millerbernd Mfg. Co.  
Moon Shine Lamp & Shade  
Musco Lighting  
Newmark Intl.  
One Step Lighting  
Optikinetics Limited  
Passport Furniture  
Peerless Industries  
Pendant Systems  
Peter Albrecht Company  
RSL Landscape Lighting  
Ruud Lighting  
Sentry Electric  
Shakaspere  
Composite Structures  
SNOC  
Special Lite Products  
Spring City Electrical  
Sternberg Lighting  
Stemler Lighting  
Techlight  
Manufacturing  
TMS Lighting  
Tomcat USA  
Tubular Skylight  
Sun Valley Lighting  
Valmont Industries  
Vertex Lighting  
Vintage Hardware  
Visio Lighting  
Vision3 Lighting  
Visnaire Lighting

## CONTROLS

### CONTROL SYSTEMS

Act One  
Communications  
Advanced Control Technologies  
Alcorn McBride  
ALM  
AMWEI Thermistor Co.  
AMX Corporation  
Audio Visual Innovations  
Avolites America  
Barbizon Electric  
Bright Image Corporation  
Centralite Systems  
Chauvet  
Color Kinetics  
Cooper Lighting  
Crestron Electronics  
De Sisti Lighting  
Design Elements  
Design Specialty  
Digital Lighting Systems  
Doug Fleener Design  
Douglas Lighting  
Controls  
Dove Lighting Systems  
EasyLite Integrated Lighting  
Echelon Corp.  
Eckel Industries  
EG Energy Controls  
Electrol Engineering  
ETC  
Electronics Diversified  
Entertainment Technology  
eStar Lighting  
ETC Architectural  
EuroLite  
Flex-A-Lite West  
Future Wave Technologies  
Gaslite America West  
GSD Productions  
Holophane  
Home Automation  
Hubbell Building Automation  
Hunt Dimming  
IEPC Corp.  
ILC - Intelligent Lighting Controls  
J&J Electronics

KLS Electronics/Lar Solutions  
Lehigh Electric Products Co.  
Leprecon  
Leviton Mfg. Co.  
Lighting & Electronic Design  
Lighting Control & Design  
Lighting Control Lightoler  
Lightronics  
LiteTouch  
Lodging Technology  
Lumiere Lighting  
Lutron Electronics Co.  
Marlin Controls  
Martin Architectural  
Muxco Lighting  
NexLight  
Nolaclaudie America  
Nutech Lighting Co  
PCI Lighting Control Systems  
PLC Multipoint  
RSL Landscape Lighting  
Sexton Lighting  
SPI Systems  
Stacowith  
Superior Electric  
TAC/Tour Andover Controls  
Tazz Lighting  
Techni-Lux  
The Bodine Co.  
Theatrical Lighting Systems  
Thomas Research Products  
Torik  
Touch-Plate Lighting Controls  
Tridonic  
Udec Corp.  
Vertex Lighting  
Watt Stopper/Legra  
Wide-Lite

### DIMMERS/SENSOR SWITCHES/TIMERS

Advanced Control Technologies  
Air King/Lasko Metal Products  
Air Win Intl.  
Alexander-John  
ALM  
Alpan Lighting Prod  
AMWEI Thermistor  
AMX Corporation  
Audio Visual Innovations  
Avolites America  
Barbizon Lighting  
Beacon Light Prod  
Brandon Industries  
Bright Image Corporation  
Bryant Electric  
C.H. Briggs  
Catalina Lighting  
Chauvet  
Christopher Wray  
Cooper Lighting  
Crestron Electronic  
Dal City  
Design Specialty  
Digital Lighting Systems  
Doug Fleener Design  
Douglas Lighting Controls  
Dove Lighting Systems  
EasyLite Integrated Lighting  
Echelon Corp.  
EG Energy Controls  
Electrol Engineering  
ETC  
Electronics Diversified  
Entertainment Technology  
eStar Lighting  
ETC Architectural  
EuroLite  
Flex-A-Lite West  
Future Wave Technologies  
Gaslite America West  
GSD Productions  
Holophane  
Home Automation  
Hubbell Building Automation  
Hunt Dimming  
IEPC Corp.  
ILC - Intelligent Lighting Controls  
J&J Electronics

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ature Foundry  
A-West  
Electric Supply  
te America West  
ksman Lighting Products  
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Productions  
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phone  
e Automation  
ball Building Automation  
Dimming  
t Corp.  
Intelligent Lighting  
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right Corp.  
Electronics/Lamp  
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ar Design  
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Y O.E.M. Supplies  
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al-Lite Products Co.  
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Switch  
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for Electric  
h-Lux  
ical Lighting Systems  
as Research Products  
h-Plate Lighting Controls  
ar Skylight  
Neico Mfg.  
Stopper/Legrand

Forum  
Gemini One Five Luminaires  
Idaho Wood  
IEPC Corp.  
Illuminating Experiences  
/Nemo  
Illumivision  
Invue Lighting Systems  
IO Lighting  
J&J Electronics  
Johnsontite  
Kenall Mfg.  
Kirlin Company  
Lightech  
Lighting & Electronic Design  
Lion Industries  
Lithonia Lighting  
Liton Lighting  
Living Well  
Los Angeles Lighting  
Louis Poulsen Lighting  
Luceptan USA  
Lucifer Lighting Company  
Lumiere Lighting  
Lumigraf  
Lumux Lighting  
Magic Lite  
Mica Lighting Company  
Mills Architectural Lighting  
Modular Intl.  
National Specialty Lighting  
Nico  
Nora Lighting  
OptiLED  
OSRAM Opto  
Semiconductors  
Packaged Lighting Systems  
Passport Furniture  
Pathway Lighting Products  
Pegasus Associates  
Permlight  
Phoenix Products Company  
Plantelier  
Prescolite  
Prisma North America  
Progress Lighting  
Prolume  
Rebelle Architectural Lighting  
Renoma Lighting  
Roberts Step-Lite Systems  
Ruud Lighting  
Scangit  
Sistemalux  
SOS Lighting Devices  
Space Lighting  
Starfire Lighting  
Step 1 Designs  
Stonco Lighting  
Super Vision Intl.  
Sure-Lites Lighting  
Sylvan Designs  
Talisman Glass  
Tango Lighting  
Targett North America  
Teledyne Lighting  
The Brighton Collection  
Thomas Contract Lighting  
Trans-Lite  
ValueLight.com  
Vintage Luminaires  
Vintage Hardware  
Vision3 Lighting  
Visual Lighting Technologies  
Walt-Man LED Lighting  
WF Harris Lighting  
Winona Lighting

**BATH/VANITY**  
20th Century Lighting  
AAMSCO Lighting  
AC Lighting Design  
Accent Kitchen & Bath  
Access Lighting  
Adesso  
AH Lighting  
Alexandra Lighting Systems  
Alico Industries  
Alkco Lighting  
American Fluorescent Corp.  
American Period Lighting  
AmeriTec Lighting  
Anchor Lighting  
Architectural Details  
Arkansas Lamp  
Arroyo Craftsman  
Art Lighting Gallery  
Artcraft Lighting  
Artemide  
Artemus Lighting  
Artistic Tile  
Authentic Designs Colonial  
Avanti Lighting  
Baccarat  
BACI by Remcraft  
Badger Lite Company  
Baldinger  
Bartco Lighting  
Belfer Group  
Besa Lighting  
Bis Bis  
Boca Flasher  
Boyd Lighting Co.  
Broan  
Brodwax Lighting

Brownlee Lighting  
Bruck Lighting Systems  
Bunzl Extrusion Columbia  
Calger Lighting  
Candella Lighting Co.  
Carlson Design  
Casella Lighting  
Catalina Lighting  
Celestial Lighting  
Challenger Lighting  
Charles Loomis  
Cherry Tree Design  
Christopher Wray  
Classic Illuminations  
Classic Lighting Corp.  
Columbia Lighting  
Con-Tech Lighting  
Conant Custom Brass  
Contrast Lighting ML  
Cooper Lighting  
Corbett Lighting - Div. Troy-  
CSL Lighting  
Corelite Lighting  
Cornice Lighting Systems  
Coronet Chandelier Originals  
Craftmade Intl.  
Craftsmen Hardware Co.  
Crownlite Mfg. Corp.  
Cryorama Lighting  
Custom Lighting  
D'Lights  
Dainolite  
David Landis Design  
Day-Brite Capri Omega  
Day-O-Lite Manufacturing  
Delux Custom Lighting  
Design Elements  
Designers Fountain  
Display Supply & Lighting  
Dreamscape Lighting Mfg.  
Duray Fluorescent  
ELA Lighting  
Electrodex  
Elk Lighting  
Energie Intl.  
eStar Lighting  
Estiluz  
Eurofase  
Excelite  
Exciting Lighting  
Fabbian USA Corp.  
Fabulux  
Fire Farm  
Firefly Lighting  
Firefly Technology Corp.  
Flex-A-Lite West  
Fios USA  
Flux Incorporated  
Focalor  
Forum  
FSC Lighting  
Gemini One Five Luminaires  
George King Associates  
Ginger-Motiv  
H. A. Framburg & Co  
Haig Lighting  
Hallmark Lighting  
Hammeron  
Hampstead Lighting  
Harold's Fine Home Lighting  
Hera Lighting LP  
Herbeau Creations  
Hinkley Lighting  
Holtkötter Intl.  
Hubbard Forge  
Hudson Valley Lighting  
Idaho Wood  
Ideal Electric Mfg. Co.  
ILEX Architectural Lighting  
Illuminating Experiences  
/Nemo  
Industry & Design Light  
Intl. Ironworks  
Iris Lighting Systems  
Lighting  
ITRE - LuxLuce  
J-Art Iron  
J.H. Lighting  
James R. Moder  
Jesco Lighting  
John Boone  
Justice Design Group  
JV Imports USA  
Kane Shradar  
Kawahara Design  
Kimball & Young  
Kozal Lighting  
LaMar Lighting Company  
Lampe by Hillard  
Lancaster Glass  
Lantern Masters  
Latigo Lights  
LBL Lighting  
LEDS o/o MLG Contract  
Legion Lighting Co.  
Levy Lighting  
Liberty Brass Turning Co.  
Light Space  
Light-Project Intl.  
Lightcrafters  
Lighting & Electronic Design  
Lighting Sculptures  
LightingUniverse.com  
Lightolier

Limelight  
Lion Industries  
Lite Source  
Liteco Sales  
Lithonia Lighting  
Living Well  
LOTI Corporation  
Louie Lighting  
Louis Poulsen Lighting  
Luceptan USA  
Lucid Lighting  
Lumax Industries  
Lumetta  
Lumigraf  
Luminaria Lighting  
Lumux Lighting  
Luraline Products Co.  
LYX Furniture & Light  
Mapic Woods  
Matthews Fan Co.  
Maxim Lighting Intl.  
McLain Wiesand  
Merlin Lighting  
Merino Lighting & Crafts  
Meyda Tiffany  
Miller O.E.M. Supplies  
Modulightor  
Morrison Lighting  
Murray Feiss Import  
Myran Allan Chandelier  
Natural Forms Lampshades  
Antler Designs & Mica  
Lampshades  
Nessen Lighting  
New Grand Light  
Nulco Lighting  
OSRAM Opto  
Semiconductors  
P & H Company /Flex-A-Lite  
Pacific Coast Lighting  
Palmer Hargrave  
Parkdale Products  
Passport Furniture  
Permlight  
Phoenix Products Company  
Pioneer Lighting  
PLC Lighting  
Primalite Manufacturing  
Progress Lighting  
Prudential Lighting  
Quozel  
R. Jesse & Company  
R.A.M. Lighting  
Rejuvenation  
Remains Lighting  
Remcraft Lighting Products  
Renaissance Lighting  
Renoma Lighting  
Resolute  
Restoration Arts  
Rockefeller Lighting  
Roy Electric Antique Lighting  
Rubi Glass  
Satco Products  
Scangit  
Schoolhouse Electric Co.  
Scott Architectural Lighting  
Sea Gull Lighting Products  
Shaper Lighting Lighting  
Sherle Wagner Intl.  
Sonia America  
Space Lighting  
Specialty Lighting  
Step 1 Designs  
Sterling Products  
Stone County Ironworks  
Stone Manor Lighting  
Stonegate Designs  
Studio Italia Design USA  
Sunpark Electronics Corp.  
Sunset Lighting and Fans  
Sylvan Designs  
Tai Pan Lighting Company  
Talisman Glass  
Tango Lighting  
Task Lighting Corp.  
Tech Lighting  
TCP  
Teron Lighting  
The Brighton Collection  
The Federalist  
The Lighting Edge  
Thin-Lite Corp.  
Thomas Contract Lighting  
Toyo Trading Co.  
Trans-Lite  
Trend Lighting Corp.  
Triarch Industries  
Trinity Lighting  
Troy Adams Design  
Two Hills Studio  
Ultralights Architectural  
Lighting  
Unilight  
Universal Fixture Mfg. Co.  
Urban Archaeology  
USA Illumination  
ValueLight.com  
VKG Lighting  
Vibia  
Victor Illuminating  
Vintage Hardware  
Visa Lighting  
Visonering Corp.

Vista Lighting  
Visual Lighting Technologies  
Waterford/Wedgwood USA  
Westinghouse  
Wilshire Mfg. Co.  
Zadro Products  
Zaneen Lighting  
**CABINET/UNDERCABINET**  
AAMSCO Lighting  
Action Lighting  
AH Lighting  
AlBEO Technologies  
Alexandra Lighting Systems  
Alico Industries  
Alkco Lighting  
Alumen B  
Ambiance Lighting Systems  
American Fluorescent Corp.  
American Lighting  
American Power Products  
Architectural Products by  
Outwater  
Ardee Lighting  
Ardron-Mackie Limited  
Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
Badger Lite Company  
Bartco Lighting  
Belfer Group  
Birchwood Lighting  
Bis Bis  
Boca Flasher  
Bright Image Corporation  
Brodwax Lighting  
Brownlee Lighting  
Bunzl Extrusion Columbia  
C.H. Briggs  
Catalina Lighting  
CoeLite  
Celestial Lighting  
Color Kinetics  
Con-Tech Lighting  
Cooper Lighting  
Craftmade Intl.  
Crescent Lighting  
Crownlite Mfg. Corp.  
Crystalite Industries  
Progress Lighting  
Custom Lighting  
CV Lighting  
Dainolite  
Day-Brite Capri Omega  
Delta Light  
Design Elements  
Dialight Corporation  
Display Supply & Lighting  
DMF Lighting  
Duray Fluorescent  
E-Lite Technologies  
Elco Lighting  
Elliptipar  
Ergonomic Accessories Intl.  
Eurofase  
Exhibit and Display Truss  
Extron/Div. of Barron Mfr.  
FABCO Neon & Cold  
Cathode Fabricating Co.  
Fail-Safe Lighting  
Firefly Technology Corp.  
Flex-A-Lite West  
FSC Lighting  
GE Lighting Systems  
Gemini One Five Luminaires  
H. E. Williams  
Hafele America Co.  
Hera Lighting LP  
House of Troy  
Illumivision  
Innovative Lighting  
Inspired Sales  
IO Lighting  
Jesco Lighting  
Jolt Lighting  
Juno Lighting Group  
Kenall Mfg.  
Kroy Sign Systems  
LaMar Lighting Company  
Legion Lighting Co.  
Levy Lighting  
Liberty Brass Turning Co.  
Light Craft Mfg.  
Lighting & Electronic Design  
Lighting Services Inc  
Lightolier  
Lightworld.com  
Liteco Sales  
Litrronics Intl. /Duro-Lite  
Lithonia Lighting  
Liton Lighting  
Lucifer Lighting Company  
Lumax Industries  
Lumificient Technologies  
Lumigraf  
Lumux Lighting  
Luxam  
Magic Lite  
MaxLite  
Mepia-Afit  
Merlin Lighting  
Metalux Lighting

Mica Lighting Company  
Miller O.E.M. Supplies  
Modular Intl.  
Modulightor  
MP Lighting  
National Specialty Lighting  
New Grand Light  
Nico  
Nora Lighting  
NuArt Lighting Products  
Ocean State Lighting  
OptiLED  
OSRAM Opto  
Semiconductors  
Outwater Plastics Industries  
P & H Company /Flex-A-Lite  
Pegasus Associates  
Permlight  
Phantom Lighting Systems  
Pioneer Lighting  
Progress Lighting  
Quozel  
Radionic Hi-Tech /Radionic  
Industries  
Richelieu Hardware Ltd  
Roberts Step-Lite Systems  
RSO Lighting  
Satco Products  
Selby Furniture Hardware  
SloanLED  
Smedmarks  
Specialty Lighting  
Step 1 Designs  
Stylmark  
Sunpark Electronics Corp.  
Sunset Lighting and Fans  
Super Vision Intl.  
Sylvan Designs  
Task Lighting Corp.  
Tazz Lighting  
Techni-Lite Systems  
The Light Edge  
Thin-Lite Corp.  
Thomas Contract Lighting  
Tokistar Lighting  
Trans-Lite  
Troy Adams Design  
U.S. Weico Mfg.  
Ussar Enterprises  
ValueLight.com  
Visionering Corp.  
Visual Lighting Technologies  
Westinghouse  
**CABLE/RAIL**  
Accent Kitchen & Bath  
Alico Industries  
Ambiance Lighting Systems  
Avanti Lighting  
B & N Industries  
Bruck Lighting Systems  
CeeLite  
Con-Tech Lighting  
Cooper Lighting  
Design Elements  
Eureka Lighting  
Eurofase  
Forms+Surfaces  
GLC Lighting  
Hafele America Co.  
Industry & Design Light  
Inlite Corp.  
J&J Electronics  
Jesco Lighting  
Juno Lighting Group  
Kania Lighting Systems  
Lawrence Metal Products  
LBL Lighting  
Light Waves Concept  
Light-Project Intl.  
LightingUniverse.com  
Liton Lighting  
Louie Lighting  
Lucifer Lighting Company  
Lumisphere USA  
MP Lighting  
New Grand Light  
New West Furniture  
Orbit North America  
P & H Company /Flex-A-Lite  
Pegasus Associates  
Planlight USA  
Prima Lighting Corp.  
Satco Products  
Schonbek Lighting  
SF Designs  
Space Lighting  
Step 1 Designs  
Swiveler  
Talisman Glass  
Tech Lighting  
Trans-Lite  
**COMMERCIAL CEILING/  
DIRECT-INDIRECT**  
1st Source Lighting  
ABS Lighting  
Action Lighting  
Adventures in Copper  
Alexandra Lighting Systems  
Alkco Lighting  
Alumen B  
Ambiance Lighting Systems

American Fluorescent Corp.  
American Glass Light Co.  
American Power Products  
AmeriTec Lighting  
Amerlux Lighting Solutions  
Amatrix Lighting  
Architectural Area Lighting  
Architectural Details  
Architectural Lighting Works  
Architectural Products by  
Outwater  
Ardee Lighting  
Ardron-Mackie Limited  
Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
Art Lighting Gallery  
Artemide  
Artemus Lighting  
Axis Lighting  
Badger Lite Company  
Bartco Lighting  
Basic Source  
Belfer Group  
Besa Lighting  
Beta Lighting  
Beta-Calco  
B-K Lighting  
Boca Flasher  
Brodwax Lighting  
Bruck Lighting Systems  
Bunzl Extrusion Columbia  
C.W. Cole & Company  
Calger Lighting  
Cathode Lighting Systems  
Celestial Lighting  
Challenger Lighting  
Chandelier Parts Company  
Christopher Norman  
Classic Lighting Corp.  
Cernar  
Columbia Lighting  
Columbia Lighting  
Conant Custom Brass  
Concord Fans and Lighting  
Con-Tech Lighting  
Cooper Lighting  
Cooper Lighting  
Cornice Lighting Systems  
Coronet Chandelier Originals  
Christopher Poehlmann  
Crescent Lighting  
Crownlite Mfg. Corp.  
CS Lighting  
Custom Lighting  
CV Lighting  
d'ac Lighting  
Day-Brite Capri Omega  
Day-O-Lite Manufacturing  
Deco Lighting  
Delux Custom Lighting  
Designers Lighting &  
Accessories  
Display Supply & Lighting  
D'Lights  
Duray Fluorescent  
Easylite Integrated Lighting  
Eclipse Lighting  
Edison Price Lighting  
Elco Lighting  
Electric  
Electrol Engineering  
Elite Bohemia/BarDel Intl.  
Elliptipar  
Energie Intl.  
Engineered Lighting  
Products  
ERCO Lighting  
Ergonomic Accessories Intl.  
eStar Lighting  
Eureka Lighting  
Eurofase  
Evergreen Lighting  
Excelite  
Exhibit and Display Truss  
Fabbian USA Corp.  
FABCO Neon & Cold  
Cathode Fabricating Co.  
Fabulux  
FAD Lighting/Delta Light  
Fiberstars  
Finelite  
Firefly Technology Corp.  
Flex-A-Lite West  
Fios USA  
Focal Point  
Forms+Surfaces  
Forum  
Fox Electric Supply  
FSC Lighting  
Full Spectrum Solutions  
G Lighting  
Galbraith & Paul  
Gammalux Systems  
GE Lighting Systems  
Geni-Strut  
GLC Lighting  
Guth Lighting  
H.E. Williams  
Halems  
Hallmark Lighting  
Halo Lighting  
Hampstead Lighting  
Haworth  
Herwig Lighting

FOR COMPARATIVE COMPANY SEARCHES, CLICK ON SOURCE DIRECTORY AT ARCHLIGHTING.COM

HessAmerica  
Higuchi USA  
Hinson & Co.  
Historical Arts & Casting Inc  
Holophane  
Hotelite  
Hubbardton Forge  
Hunter Douglas Contract  
Icon Intl.  
Ideal Electric Mfg. Co.  
IEPC Corp.  
ILEX Architectural Lighting  
Illuminating Experiences  
/Nemo  
Illumivision  
Illumivision  
Incon Lighting  
Inductionlighting.Com  
Industry & Design Light  
Indy Lighting  
Infinity Lighting  
Inlite Corp.  
Innovative Lighting  
Insight Lighting  
Inspired Sales  
Invue Lighting Systems  
ITRE - LuxLuce  
J.H. Lighting  
James Thomas Engineering  
Juno Lighting Group  
Justice Design Group  
Kane Shradler  
Kania Lighting Systems  
Kenall Mfg.  
Kirlin Company  
KLS Electronics/Lamp  
Solutions  
Kramer Lighting  
Kurtzon Lighting  
LA Neon + Cathode  
LAM Lighting Systems  
LaMar Lighting Company  
LECS Worldwide  
Ledalite Architectural  
Products  
Legion Lighting Co.  
Levy Lighting  
Lexalite Intl. Corp.  
Light Space  
Lighting & Electronic Design  
Lighting Services Inc  
Lightolier  
Light-Project Intl.  
Linear Lighting Corp.  
Litecontrol  
Lithelab Corp.  
Lithonia Lighting  
Liton Lighting  
Los Angeles Lighting  
Louis Poulsen Lighting  
Louvers Intl.  
LSI Industries /LSI Lighting  
Solutions Plus  
Lucid Lighting  
Luxum Industries  
Lumetta  
Lumificient Technologies  
Lumigraf  
Luminaria Lighting  
Luminis Con.Daz Lutrex  
Luxum Lighting  
Luraline Products Co.  
Luxo Corporation  
LYX Furniture & Light  
Magic Lite  
Manning Lighting  
Martin Architectural  
Merlin Lighting  
Metalumen Mfg.  
Metalux Lighting  
Meyda Tiffany  
Mica Lamp Co.  
Michaels' Lighting  
Miller O.E.M. Supplies  
Modular Intl.  
Moon Shine Lamp & Shade  
Morrison Lighting  
Modular Wiring Systems  
Navitar  
Nemco Architectural Lighting  
Neon Design  
Neo-Ray Lighting  
Newstar  
Nicor  
Nora Lighting  
Norton Industries  
NuArt Lighting Products  
Nulco Lighting  
One Step Lighting  
Orgatech + Omegalux  
OSRAM Opto  
Semiconductors  
Pacific Coast Lighting  
Paramount Industries  
Peter Albrecht Company  
Phoenix Products Company  
Pioneer Lighting  
Planlicht USA  
PMC Lighting  
Pompeian Manufacturing  
Precision Architectural  
Lighting  
Prudential Lighting  
Rebelle Architectural Lighting  
Remains Lighting  
RENOVA Lighting Systems

Resolute  
Restoration Arts  
Roberts Step-Lite Systems  
RSA Lighting  
Ruud Lighting  
Schoolhouse Electric Co.  
Scott Architectural Lighting  
SF Designs  
Shaper Lighting Lighting  
Simkar Corp.  
Smedmarks  
Solux Design  
Space Lighting  
SPI Lighting  
Starfire Lighting  
Sterling Products  
Stingray Lighting  
Stonco Lighting  
Stonagate Designs  
Studio Italia Design USA  
Swiveller  
Tango Lighting  
Targett North America  
Tekal Illumination  
The Brighton Collection  
The Federalist  
The Light Edge  
The Lighting Edge  
TIR Systems  
TMS Lighting  
Translite Sonoma  
Traxon USA  
U.S. Energy Sciences  
Universal Fixture Mfg. Co.  
USA Illumination  
Uspar Enterprises  
Valueight.com  
Vantage Luminaires  
VGK Lighting  
Vibia  
Victor Illuminating  
Visa Lighting  
Visionaire Lighting  
Visioneering Corp.  
Vista Lighting  
Visual Lighting Technologies  
Waldmann Lighting Co.  
Waterford/Wedgwood USA  
Westinghouse  
WF Harris Lighting  
Wide-Lite  
Wila Lighting  
Winona Lighting  
Zumbobel Staff Lighting

**COMMERCIAL WALL**  
1 World Class Lighting  
1st Source Lighting  
A-19  
AC Lighting Design  
Access Lighting  
Adesso  
Adventures in Copper  
AlbEO Technologies  
Alexandra Lighting Systems  
Alico Industries  
Ailco Lighting  
Alumen 8  
Ambiance Lighting Systems  
American Fluorescent Corp.  
American Glass Light Co.  
American Period Lighting  
AmeriTec Lighting  
Amatrix Lighting  
Aqua Creations USA  
Architectural Area Lighting  
Architectural Details  
Architectural Lighting Works  
Ardron-Mackie Limited  
Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
Arkansas Lamp  
Art Lighting Gallery  
Artemide  
Avanti Lighting  
B-K Lighting  
Badger Lite Company  
Bartco Lighting  
Baselite Corp.  
Belfer Group  
Besa Lighting  
Beta Lighting  
Beta-Calco  
Birchwood Lighting  
Boyd Lighting Co.  
Brandon Industries  
Brodwax Lighting  
Brownlee Lighting  
Bruck Lighting Systems  
C.W. Cole & Company  
Calger Lighting  
Candella Lighting Co.  
Casella Lighting  
Cathode Lighting Systems  
CGF Design  
Challenger Lighting  
Charles Loomis  
Christopher Norman  
Classic Lighting Corp.  
Columbia Lighting  
Cooper Lighting  
Corelite Lighting  
Cornice Lighting Systems  
Coronet Chandelier Originals  
Crownlite Mfg. Corp.  
CS Lighting

Custom Lighting  
d'ac Lighting  
Daitor  
Day-O-Lite Manufacturing  
Deco Lighting  
Delux Custom Lighting  
Designers Lighting &  
Accessories  
Display Supply & Lighting  
Duray Fluorescent  
Eclipse Lighting  
Elco Lighting  
Electric  
Electrol Engineering  
Elite Bohemia/BarDel Intl.  
Elk Lighting  
Elliptipar  
Energie Intl.  
Engineered Lighting  
Products  
ERCO Lighting  
Ergonomic Accessories Intl.  
eStar Lighting  
Eureka Lighting  
Evergreen Lighting  
Excelite  
Exhibit and Display Truss  
FABCO Neon & Cold  
Cathode Fabricating Co.  
Fibulux  
FAD Lighting/Delta Light  
Fiberstars  
FineArtLight  
Finelite  
Fire Farm  
Flex-A-Lite West  
Focal Point  
Forum  
Fox Electric Supply  
G Lighting  
Galbraith & Paul  
Gammalux Systems  
Gaslite America West  
GE Lighting Systems  
Gemini One Five Luminaires  
Geni-Strut  
George King Associates  
GLC Lighting/Halems  
Hallmark Lighting  
Hammerton  
Hampstead Lighting  
Haworth  
Herwig Lighting  
HessAmerica  
Hinson & Co.  
Historical Arts & Casting Inc  
Holophane  
Hotelite  
House of Troy  
Hubbardton Forge  
Ideal Electric Mfg. Co.  
IEPC Corp.  
ILEX Architectural Lighting  
Illumivision  
Incon Lighting  
Inductionlighting.Com  
Industry & Design Light  
Infinity Lighting  
Insight Lighting  
Invue Lighting Systems  
IO Lighting  
ITRE - LuxLuce  
J.H. Lighting  
Janmar Lighting  
Justice Design Group  
JV Imports USA  
Kane Shradler  
Kania Lighting Systems  
Kenall Mfg.  
Kirlin Company  
Kramer Lighting  
Kurtzon Lighting  
LA Neon + Cathode  
LAM Lighting Systems  
LaMar Lighting Company  
Latigo Lights  
LECS Worldwide  
Ledalite Architectural  
Products  
Legion Lighting Co.  
Light Space  
Light-Project Intl.  
Lightcrafters  
Lighting & Electronic Design  
Lighting Sculptures  
Lighting Services Inc  
Lightolier  
Lightworld.com  
Linear Lighting Corp.  
Litecontrol  
Lithonia Lighting  
Lumax Industries  
Lumetta  
Lumid  
Lumigraf  
Luminaria Lighting  
Luminis Con.Daz Lutrex

**DECORATIVE CEILING/  
PENDANTS/WALL/  
SCONCES/CHANDELIERS**  
1 World Class Lighting  
20th Century Lighting  
2nd Ave. Design  
2thousand degrees  
3Form  
555 Design Fabrication  
Management  
A-19  
AAMSCO Lighting  
ABET  
AC Lighting Design  
Academy Awning  
Accent Kitchen & Bath  
Access Lighting  
Accessories Intl.  
Action Lighting  
Adesso  
Adventures In Copper  
AH Lighting  
Air Win Intl.  
Alexander-John  
Alexandra Diez  
Alexandra Lighting Systems  
Alger Intl.  
Alico Industries  
Allico Lighting  
Alluminaire Lighting  
Amber Glow Lighting

Magic Lite  
Manning Lighting  
Merlin Lighting  
Metalumen Mfg.  
Metalux Lighting  
Metomic Corp.  
Mica Lamp Co.  
Michaels' Lighting  
Miller O.E.M. Supplies  
Modular Intl.  
Morrison Lighting  
Nathan Allan Glass Studio  
National Specialty Lighting  
Nemco Architectural Lighting  
Neo-Ray Lighting  
Nessen Lighting  
Niemann Weeks Co.  
Noral Lighting  
NuArt Lighting Products  
Nulco Lighting  
Orgatech + Omegalux  
Palmer Hargrave  
Paramount Industries  
Pioneer Lighting  
PMC Lighting  
Precision Architectural  
Lighting  
Prescolite  
Prudential Lighting  
Rambusch Lighting  
Rebelle Architectural Lighting  
Remcraft Lighting Products  
Renoma Lighting  
Resolute  
Restoration Arts  
RSA Lighting  
Ruud Lighting  
S & S Picture Lights  
Schoolhouse Electric Co.  
Scott Architectural Lighting  
SF Designs  
Shaper Lighting Lighting  
Shell Light  
Sistemalux  
SloanLED  
Smith-Victor Corporation  
Solux Design  
Space Lighting  
Spectrum Lighting  
SPI Lighting  
Starfire Lighting  
Stonagate Designs  
Studio Italia Design USA  
Swiveller  
Tango Lighting  
Targett North America  
Tech Lighting  
Tekal Illumination  
Teron Lighting  
The Brighton Collection  
The Federalist  
The Light Edge  
The Lighting Edge  
Trinity Lighting  
Two Hills Studio  
Ultratec Fibre Optic  
Universal Fixture Mfg. Co.  
Urban Archaeology  
Uspar Enterprises  
Valueight.com  
Vantage Luminaires  
VGK Lighting  
Vibia  
Victor Illuminating  
Visa Lighting  
Visioneering Corp.  
Vista Lighting  
Waldmann Lighting Co.  
Waterford/Wedgwood USA  
Charles Edwards  
Charles Loomis  
Cherry Tree Design  
Christopher Norman  
Christopher Thomson  
Ironworks  
Classic Illuminations  
Classic Lighting Corp.  
Conant Custom Brass  
Con-Tech Lighting  
Contrast Lighting ML  
Cooper Lighting  
CopperShades  
Copperworks Lighting  
Corbett Lighting - Div. Troy  
CSL Lighting  
Cornelite Lighting  
Cornice Lighting Systems  
Coronet Chandelier Originals  
Coyote Glass Design  
Christopher Pohlmann  
Craftmade Intl.  
Craftsmen Hardware Co.  
Crownlite Mfg. Corp.  
Crystal Glass Studio  
Crystallite Industries  
Crystorama Lighting  
CS Lighting  
Creative Systems Lighting  
Currey & Company  
Custom Lighting  
Customlightstyles  
d'ac Lighting  
Dainolite  
David Landis Design  
Davis/Muller Lighting

Ambiance Lighting Systems  
Ambiance  
American Fluorescent Corp.  
American Glass Light Co.  
American Lighting  
American Period Lighting  
AmeriTec Lighting  
Anvil Arts  
Anvil Design Corporation  
Aqua Creations USA  
Architects & Heroes Interiors  
Architectural Area Lighting  
Architectural Details  
Architectural Products by  
Outdoor  
Ardes Lighting  
Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
Arkansas Lamp  
Arroyo Craftsman  
Art Lighting Gallery  
Artcraft Lighting  
Arte de Mexico  
Artemide  
Artemus Lighting  
Artistic Lighting & Designs  
Artlight Creations  
Ashlor Lamps  
Aurora Lampworks  
Authentic Designs Colonial  
Avanti Lighting  
B & P Lamp Supply  
Baccarat  
BACI by Remcraft  
Badger Lite Company  
Baja West  
Baldinger  
Ball & Ball  
Baselite Corp.  
Bassley Metalart  
Belfer Group  
Bella Luz Designs With Light  
Besa Lighting  
Beta-Calco  
Bieber Lighting Corp.  
Bis Bis  
B-K Lighting  
Boca Flasher  
Bone Simple Design  
Boyd Lighting Co.  
Brandon Industries  
Brass Light Gallery  
Broan  
Brodwax Lighting  
Brownlee Lighting  
Bruck Lighting Systems  
Brueton  
C.L. Sterling & Son  
C.W. Cole & Company  
Cal Lighting  
Calger Lighting  
Candella Lighting Co.  
Carlson Design  
Casablanca Fan Co.  
Casella Lighting  
Cast Horn Designs  
Catalina Lighting  
CE Lighting of North America  
CoeLite  
Ceiling Designs  
Century Industries  
CGF Design  
Challenger Lighting  
Chameleone Fine Lighting  
Chandelier Parts Company  
Charles Edwards  
Charles Loomis  
Cherry Tree Design  
Christopher Norman  
Christopher Thomson  
Ironworks  
Classic Illuminations  
Classic Lighting Corp.  
Conant Custom Brass  
Con-Tech Lighting  
Contrast Lighting ML  
Cooper Lighting  
CopperShades  
Copperworks Lighting  
Corbett Lighting - Div. Troy  
CSL Lighting  
Cornelite Lighting  
Cornice Lighting Systems  
Coronet Chandelier Originals  
Coyote Glass Design  
Christopher Pohlmann  
Craftmade Intl.  
Craftsmen Hardware Co.  
Crownlite Mfg. Corp.  
Crystal Glass Studio  
Crystallite Industries  
Crystorama Lighting  
CS Lighting  
Creative Systems Lighting  
Currey & Company  
Custom Lighting  
Customlightstyles  
d'ac Lighting  
Dainolite  
David Landis Design  
Davis/Muller Lighting

Day-Brite Capri Omega  
Day-O-Lite Manufacturing  
Decorators Resource of  
Central Florida  
Deep Landing Workshop  
Delux Lighting  
Delux Custom Lighting  
Derek Marshall Lighting  
Derrier & Hamlyn  
Design Elements  
Design Guild  
Design Within Reach  
Designers Fountain  
Designers Lighting &  
Accessories  
Display Supply & Lighting  
D'Lights  
DMF Lighting  
Donovan Design Co.  
Donovan Lighting  
Dreamscape Lighting Mfg.  
Duray Fluorescent  
Ecipse Lighting  
Ecolite Mfg. Co.  
El KaBode Tile Fine Art  
Ceramic Tile Maker  
ECLA Lighting  
ELO Lighting  
Electric Co.  
Electric  
Electrode  
Elettra  
Elite Bohemia/BarDel Intl.  
E-Lite Technologies  
Elk Lighting  
Elliptipar  
EncapSulite Intl.  
Energie Intl.  
Entourage LA  
Envel Design Corp.  
ERCO Lighting  
Estiluz  
Eureka Lighting  
Eurofase  
Eurolite  
Eurotech Lighting  
Evergreen Lighting  
Evergreen Studios  
Excalibur Bronze Sculpture  
Foundry  
Excelite  
Exciting Lighting  
Fabbian USA Corp  
Fibulux  
FAD Lighting/Delta Light  
Fanimation  
Fiberstars  
Fine Architectural  
Metalisms  
Fire & Water  
Fire Farm  
Firefly Lighting  
Firefly Technology Corp.  
Fleurs d'Allumage  
Flex-A-Lite West  
Flex USA  
Flux Incorporated  
Focal Point  
Focalor  
Forms+Surfaces  
Forum  
Fourteenth Colony Lighting  
Fox Electric Supply  
Friedman Brothers  
Decorative Arts Inc  
FSC Lighting  
G Lighting  
G Squared  
Galbraith & Paul  
Gaslite America West  
Gemini One Five Luminaires  
Geni-Strut  
George King Associates  
Ginger-Motiv  
Gladstone Industries  
GLC Lighting  
Global Lighting  
Glow Lighting  
Gotham Architectural  
Lighting  
Guth Lighting  
H.A. Framburg & Co  
H.E. Williams  
Hafele America Co.  
Haig Lighting  
Halems  
Hallmark Lighting  
Halo Lighting  
Hammerton  
Hampstead Lighting  
Harold's Fine Home Lighting  
Hayes Lighting  
Heritage Lanterns  
Herwig Lighting  
HessAmerica  
Higuchi USA  
Hinkley Lighting  
Hinson & Co.  
Historical Arts & Casting Inc  
Hobby Hill Lighting  
Holophane  
HoltKuter Intl.  
Hotelite  
Hubbardton Forge  
Hudson Valley Lighting  
Hyde Park Mouldings

Icon Intl.  
Idaho Wood  
Ideal Electric Mfg. Co.  
ILEX Architectural Lighting  
Illuminaries  
Illuminating Experiences  
/Nemo  
Incon Lighting  
Inductionlighting.Com  
Industry & Design Light  
Inlite Corp.  
Innovative Lighting  
Insight Lighting  
Inspired Sales  
Intl. Ironworks  
Invisible Light Studio  
IO Lighting  
Iris Design Studio  
Iron Apple Forge  
Italbrass by Mondobro  
ITRE - LuxLuce  
Ivalo Lighting  
J&J Electronics  
J.H. Lighting  
James R. Moder  
Janmar Lighting  
J-Art Iron  
Jefferson Art Lighting Co.  
Jensen Design  
Jesco Lighting  
John Boone  
John Richard  
Judi's Lamphades  
Juno Lighting  
Juno Lighting  
Justice Design Group  
JV Imports USA  
Kane Shradler  
Kania Lighting Systems  
Kawahara Design  
Ken Lieberman Laborator  
Kenall Mfg.  
Kichler Lighting Group  
Kidmore Lighting  
King's Chandelier Co.  
Kirlin Company  
Kohler Company  
Kokopelli's Treasures  
Kozo Lighting  
Kramer Lighting  
Kurtzon Lighting  
LaMar Lighting Compar  
Lamps by Hillard  
Lancaster Glass  
Lantern Masters  
Laser Magic Production  
Latigo Lights  
LBL Lighting  
LEDS o/ MLG Contract  
LEDtronics  
Legion Lighting Co.  
Leucos USA  
Levy Lighting  
Lewis Mattman  
Liberty Brass Turning Co.  
Light Waves Concept  
Lightcrafters  
Lighting & Electronic De  
Lighting Sculptures  
LightingUniverse.com  
Lightolier  
Light-Project Intl.  
Lightspann Illumination  
Lightstreams Inc  
Lightworld.com  
Limelight  
Lite Makers  
Lite Source  
Litecontrol  
Lithonia Lighting  
Liton Lighting  
Living Well  
Los Angeles Lighting  
Louie Lighting  
Louis Poulsen Lighting  
LSI Industries /LSI Light  
Solutions Plus  
Lt. Moses Willard  
Luceplan USA  
Lucid Lighting  
Lucifer Lighting Compa  
Lumca  
Lumetta  
Lumid  
Lumificient Technologi  
Lumigraf  
Luminaria Lighting  
Luminis Con.Daz Lutrex  
Luxo Lighting  
Lundberg Studios  
Contemporary Art Glas  
Luraline Products Co.  
Luxo Corporation  
Luz Lampcraft  
LYX Furniture & Light  
MacPhail's Studio  
Magic Lite  
Manning Lighting  
Mario Contract Lightin  
Martin Architectural  
Matthews Fan Co.  
Maxim Lighting Intl.  
MaxLite  
McFadden Trend Light  
McLain Wyesand  
McNoon Crystal Light  
Merlin Lighting

Alumen Mfg.  
Alux Lighting  
Arto Lighting & Crafts  
Artyda Tiffany  
Arty Lamp Co.  
Arty Lighting Company  
Arty's Lighting  
Arty O.E.M. Supplies  
Arty Architectural Lighting  
Artyda Lighting  
Artydular Intl.  
Artydulator  
Arty-Richardson Co.  
Arty on Shine Lamp & Shade  
Artynight Tiffanies  
Artyson Lighting  
Arty Lighting  
Arty Feiss Import  
Arty Allan Chandelier  
Arty Allan Glass Studio  
Arty Forms Lampshades  
Artydard  
Arty Architectural Lighting  
Artyon Lighting  
Arty Era Lighting  
Arty Grand Light  
Arty Metal Crafts  
Arty West Furniture  
Artymat USA Ltd  
Artystamp Lighting Co.  
Arty Glass  
Artymann Weeks Co.  
Arty Lighting  
Artyon Industries  
Artyon Lighting  
Arty Insolate  
Artyetti  
Artyega Too  
Arty Step Lighting  
ArtyLED  
Arty North America  
Artytech + OmegaLux  
Artywater Plastics Industries  
Arty H Company/Flex-A-Lite  
Arty Ice Coast Lighting  
Arty Integrated Lighting Systems  
Artyer Hargrave  
Artydale Products  
Artyport Furniture  
Artyway Lighting Products  
Artyso Lighting  
Artysus Associates  
Artysylvania Globe Gaslight  
Artylight  
Arty Albrecht Company  
Artynix Products Company  
ArtycaMartin  
Artyeer Lighting  
Artyght USA  
Arty Lighting  
Artypean Manufacturing  
Artyosa Intl.  
Artyision Architectural  
Artyng  
Artycolite  
Artyna North America  
Artyness Lighting  
Artyzel  
Artyesse & Company  
ArtyV.L. Lighting  
Artybusch Lighting  
Artylle Architectural Lighting  
Artyency Ceiling Fan  
Artyvenation  
Artyains Lighting  
Artycraft Lighting Products  
Artyessence Lighting  
Artyama Lighting  
Artylute  
Artyoration Arts  
Arty Cottage Glassworks  
Artyrefeller Lighting  
ArtyElectric Antique Lighting  
ArtyGlass  
Artyg Products  
Artynbek Lighting  
Artyolhouse Electric Co.  
Artytt Fiber Optics  
ArtyArchitectural Lighting  
Artygull Lighting Products  
Artyesigns  
Artyg Lighting Lighting  
Artygner Lighting  
Artye Wagner Intl.  
Artyar Corp.  
Artybs  
Artymalux  
Artydmarks  
Artyh-Victor Corporation  
Arty Lighting Devices  
Artyg Lighting  
Artytrum Lighting  
Artych Art Glass/Lichtmeh  
Artyg Lighting  
Artyouis Antique Lighting  
Artyg Lighting  
Arty) Dezigns  
Artyg Products  
Artyng Handelman Studios  
Arty County Ironworks  
Arty Manor Lighting

Stonegate Designs  
Studio Italia Design USA  
Studio Steel  
Stylmark  
Sunpark Electronics Corp.  
Sunset Lighting and Fans  
Swon Design  
Sylvan Designs  
Tai Pan Lighting Company  
Talisman Glass  
Tango Lighting  
Targetti North America  
Task Lighting Corp.  
Tazz Lighting  
Tech Lighting  
TCP  
Teko Illumination  
Tempo/Infiniti Lighting  
Teron Lighting  
Terzani USA  
The Bast Road Collection  
The Brighton Collection  
The Federalist  
The Lighting Edge  
The Modern Fan Company  
The Original Cast Lighting  
THHC Lighting  
Thomas Contract Lighting  
TMS Lighting  
Tokistar Lighting  
Top Brass Lamps  
Translite Sonoma  
Traxon USA  
Trend Lighting Corp.  
Triarch Industries  
Triarch Industries  
Trinity Lighting  
Troy Adams Design  
Two Hills Studio  
UltraGlas  
Ultralights Architectural  
Lighting  
UltraLite Fibre Optic  
Unilight  
Universal Fixture Mfg. Co.  
Urban Archaeology  
USA Illumination  
Uspar Enterprises  
Uttermost Co.  
ValueLight.com  
Van Teal Lighting  
Vantage Luminaires  
Versailles Lighting  
VGK Lighting  
Vibia  
Victor Illuminating  
Victorian Lighting Works  
Vintage Hardware  
Virginia Metalcrafters  
Vista Lighting  
Visionaire Lighting  
Visual Lighting Technologies  
Waldmann Lighting Co.  
Waterford/Wedgwood USA  
Watt-Man LED Lighting  
Westinghouse Lighting Corp.  
Wever & Ducre  
Wild West Designs  
Wildwood Lamps & Accents  
Wilshire Mfg. Co.  
Winona Lighting  
Wunderley  
Yamagiwa USA Corp.  
Zaneen Lighting

**DESK/WORKSTATION**  
AAAMSCO Lighting  
Access Lighting  
Accessories Intl.  
Adesso  
Albeo Technologies  
Alkco Lighting  
Alpan Lighting Products  
Alumen B  
American Fluorescent Corp.  
Ardron-Mackie Limited  
Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
Arkansas Lamp  
Artemide  
Ashlor Lamps  
Authentic Designs Colonial  
Baldinger  
Bartco Lighting  
Belfer Group  
Bruston  
C.H. Briggs  
Calger Lighting  
Carlson Design  
Casella Lighting  
Catalina Lighting  
Century Industries  
Challenger Lighting  
Cherry Tree Design  
Christopher Wray  
Con-Tech Lighting  
Conant Custom Brass  
Crescent Lighting  
Crownlite Mfg. Corp.  
Currey & Company  
Custom Lighting  
D'Lights  
Dainolite  
David Landis Design

Dazor Mfg. Corp.  
Decorators Resource of  
Central Florida  
Design Guild  
Design Within Reach  
Designers Fountain  
Display Supply & Lighting  
Donovan Design Co.  
Donovan Lighting  
Duray Fluorescent  
Eclectic Contract Furniture  
Industries  
Eclipse Lighting  
Electric  
Elliptipar  
Engelite Lighting  
ERCO Lighting  
Ergonomic Accessories Intl.  
Eurofase  
Fabbian USA Corp.  
Fire Farm  
Firefly Technology Corp.  
Flex-A-Lite West  
Flos USA  
Forum  
Galbraith & Paul  
Gammalux Systems  
Global Lighting  
Hafele America Co.  
Hallmark Lighting  
Harold's Fine Home Lighting  
Haworth  
Hayes Lighting  
Hinson & Co.  
Holtkötter Intl.  
House of Troy  
Humanscale  
Ideal Electric Mfg. Co.  
Illuminating Experiences  
/Nemo  
IO Lighting  
Iris Design Studio  
ITRE - Lux/Luce  
J.H. Lighting  
Jefferson Art Lighting Co.  
John Boone  
John-Richard  
Jolt Lighting  
Kenall Mfg.  
LaMar Lighting Company  
Lamp Manufacturer Factory  
Outlet  
Ladalite Architectural  
Products  
Legion Lighting Co.  
Leucos USA  
Light Corp.  
Light Space  
Light-Project Intl.  
Lighting & Electronic Design  
Lite Source  
Little  
Louis Poulsen Lighting  
Louvers Intl.  
Lucente USA  
Lumigraf  
Luminaria Lighting  
Luxo Corporation  
Mario Contract Lighting  
Mayline Company  
Mepia-Alit  
Metallumen Mfg.  
Meyda Tiffany  
Modulightor  
Murray Feiss Import  
Nessen Lighting  
AAAMSCO Lighting  
Nova Lighting  
Pacific Coast Lighting  
Passport Furniture  
Pegasus Associates  
Quozel  
R. Jesse & Company  
Rejuvenation  
Renaissance Lighting  
Richeleu Hardware Ltd  
Roy Electric Antique Lighting  
Royal Høeager  
Scangit  
Smedmarks  
Space Lighting  
Specialty Lighting  
Sperlich Art Glass/Lichtmeh  
Stone County Ironworks  
Stonegate Designs  
Studio Italia Design USA  
Sunnex  
Tai Pan Lighting Company  
Tango Lighting  
Tazz Lighting  
Techni-Lite Systems  
Tensor Corp.  
Toyo Trading Co.  
Trend Lighting Corp.  
Trinity Lighting  
Verlux  
Vibia  
Vintage Hardware  
Virginia Metalcrafters  
Visioneering Corp.  
Vista Lighting  
Waldmann Lighting Co.  
Waterford/Wedgwood USA  
Wildwood Lamps & Accents

Yamagiwa USA Corp.

**DOWNLIGHTS**  
1st Source Lighting  
AC Lighting Design  
Advanced Lighting Systems  
Alexandre Lighting Systems  
Ambiance Lighting Systems  
Amerlux Lighting Solutions  
Architectural Area Lighting  
Architectural Lighting Works  
Architectural Products by  
Outwater  
Ardee Lighting  
Ardron-Mackie Limited  
Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
Artraft Lighting  
Artemide  
AtLite Lighting  
Avanti Lighting  
BACI by Remcraft  
Bartco Lighting  
Beachside Lighting  
Belfer Group  
Beta-Calco  
Brandon Industries  
Broan  
Brownlee Lighting  
C.V. Cole & Company  
Candella Lighting Co.  
Carpenter Emerg. Lighting  
Cast Horn Designs  
Catalina Lighting  
Charles Loomis  
Chauvet  
Christopher Wray  
Classic Lighting Corp.  
Color Kinetics  
Con-Tech Lighting  
Contrast Lighting ML  
Cooper Lighting  
Cornice Lighting Systems  
Crystalite Industries  
Creative Systems Lighting  
Custom Lighting  
d'ac Lighting  
D'Lights  
Dainolite  
Day-Brite Capri Omega  
Deco Lighting  
Delray Lighting  
Design Elements  
Diaight Corporation  
Display Supply & Lighting  
DMF Lighting  
Dreamscape Lighting Mfg.  
Duray Fluorescent  
Eclipse Lighting  
Edison Price Lighting  
El KaBode Tile Fine Art  
Ceramic Tile Maker  
Elco Lighting  
Electro Elf  
Electrodex  
Elumina Technology Inc.  
Energie Intl.  
Engineered Lighting  
Products  
Entertainment Technology  
ERCO Lighting  
Eureka Lighting  
Eurofase  
Eurolite  
FarLight  
Fiberstars  
Flex-A-Lite West  
Flux Incorporated  
Focal Point  
Future Light  
Gemini One Five Luminaires  
Geni-Strut  
Gotham Architectural  
Lighting  
Gressman Supply Co.  
Hallmark Lighting  
Halo Lighting  
Higuchi USA  
Holtkötter Intl.  
Hotelite  
Hubbardton Forge  
Icon Intl.  
IEPC Corp.  
Illumivision  
Industry & Design Light  
Indy Lighting  
Infinity Lighting  
Inspired Sales  
Iris Lighting Systems  
ITRE - Lux/Luce  
J&J Electronics  
Janmar Lighting  
Jesco Lighting  
Juno Lighting Group  
Justice Design Group  
Kania Lighting Systems  
Kingdom Lighting  
Kirin Company  
Kramer Lighting  
Kurt Versen Co.  
Kurtzon Lighting  
Lancaster Glass  
LBL Lighting  
Leucos USA

Light Waves Concept  
Light-Project Intl.  
Lighting & Electronic Design  
LightingUniverse.com  
Lightolier  
Litelab Corp.  
Lithonia Lighting  
Liton Lighting  
Louis Poulsen Lighting  
Lucid Lighting  
Lucifer Lighting Company  
Luraline Products Co.  
Luxo Corporation  
LYX Furniture & Light  
M&L  
Martin Architectural  
Manufacturing  
Modular Intl.  
Murray Feiss Import  
Natural Forms Lampshades  
Antier Designs & Mica  
Lampshades  
New Grand Light  
Nico  
Nora Lighting  
Nutech Lighting Corp.  
Ocean State Lighting  
OptiLED  
Orbit North America  
Outwater Plastics Industries  
P & H Company /Flex-A-Lite  
Packaged Lighting Systems  
Pathway Lighting Products  
Pauluhn Electric  
Manufacturing  
Pegasus Associates  
Portfolio  
Prescolite  
Progress Lighting  
R.A.M. Lighting  
Rambusch Lighting  
Remcraft Lighting Products  
Richeleu Hardware Ltd  
RSA Lighting  
Rub Glass  
Ruud Lighting  
Scangit  
Schott Fiber Optics  
Sea Gull Lighting Products  
SF Designs  
Sistemalux  
Smedmarks  
Solux Design  
Space Lighting  
Specialty Lighting  
Spectrum Lighting  
DMF Lighting  
Step 1 Designs  
Stone County Ironworks  
Swiveler  
Sylvan Designs  
Targetti North America  
TCP  
Teko Illumination  
The Brighton Collection  
THHC Lighting  
Thomas Contract Lighting  
Times Square Lighting  
TMS Lighting  
Trans-Lite  
Triarch Industries  
USA Illumination  
ValueLight.com  
Vantage Luminaires  
Vista Lighting  
Visioneering Corp.  
Wever & Ducre  
Willa Lighting  
Zumtobel Staff Lighting

**EXIT/EMERGENCY**  
555 Design Fabrication  
Management  
AH Lighting  
Alkco Lighting  
American Permalight  
Astralite  
Atek Emergency Lighting  
AtLite Lighting  
B-K Lighting  
Badger Lite Company  
Beghelli USA  
Best Lighting Products  
Big Beam Emergency  
Systems  
C.V. Cole & Company  
Carpenter Emerg. Lighting  
CaeLite  
Chloride Systems  
Concealite  
Cooper Lighting  
Crescent Lighting  
Crownlite Mfg. Corp.  
Custom Lighting  
Day-Brite Capri Omega  
Deco Lighting  
Display Supply & Lighting  
DMF Lighting  
Dual-Lite/Emergency  
Lighting Div.  
Dura Architectural Signage  
E-Lite Technologies  
Edison Price Lighting  
Elto Lighting  
Eventite

Exitronix/Div. of Barron Mfr.  
Fail-Safe Lighting  
Firefly Technology Corp.  
Flex-A-Lite West  
Gilbert Industries  
Guth Lighting  
Holophone  
Hotelite  
IEPC Corp.  
Infinity Lighting  
Isolite  
Jessup Manufacturing Co.  
Johnsonite  
Juno Lighting Group  
Kenall Mfg.  
Kilark  
Kirin Company  
LEDtronics  
Legion Lighting Co.  
Lightech  
Lightolier  
LightPanel Technologies  
Lightworld.com  
Lion Industries  
Lite Tech  
Lithonia Lighting  
Liton Lighting  
Los Angeles Lighting  
Lumark  
Lumenform Industries  
Magray Intl.  
Merlin Lighting  
Miller O.E.M. Supplies  
Mule Lighting  
Newstar  
Nico  
Nite Lites  
Nora Lighting  
NuArt Lighting Products  
OptiLED  
OSRAM Opto  
Semiconductors  
Paraflex Lighting  
Pathway Lighting Products  
Pauluhn Electric  
Manufacturing  
Pegasus Associates  
Pompeian Manufacturing  
Progress Lighting  
Prolume  
Ruud Lighting  
S.R.B. Technologies  
Self-Powered Lighting  
Siltron Emergency Systems  
SPI Lighting  
St. Louis Antique Lighting  
Sure-Lites Lighting  
TCP  
Thomas Research Products  
Trans-Lite  
Trinity Lighting  
Udec Corp.  
ValueLight.com  
Vista Lighting  
WF Harris Lighting  
Wila Lighting

**INDUSTRIAL TASK**  
1st Source Lighting  
American Fluorescent Corp.  
Aristo Grid Lamp Products  
Bartco Lighting  
Beghelli USA  
Brodwax Lighting  
C.H. Briggs  
Carter Products Co.  
Cooper Lighting  
Crescent Lighting  
Crownlite Mfg. Corp.  
Custom Lighting  
d'ac Lighting  
Dainolite  
Day-Brite Capri Omega  
Day-O-Lite Manufacturing  
Dazor Mfg. Corp.  
De Sisti Lighting  
Duray Fluorescent  
Electric  
Encapsulte Intl.  
Fail-Safe Lighting  
FarLight  
Fiberstars  
Big Beam Emergency  
Systems  
C.W. Cole & Company  
Carpenter Emerg. Lighting  
CaeLite  
Chloride Systems  
Concealite  
Cooper Lighting  
Crescent Lighting  
Crownlite Mfg. Corp.  
Custom Lighting  
Day-Brite Capri Omega  
Deco Lighting  
Display Supply & Lighting  
DMF Lighting  
Dual-Lite/Emergency  
Lighting Div.  
Dura Architectural Signage  
E-Lite Technologies  
Edison Price Lighting  
Elto Lighting  
Eventite

Exitronix/Div. of Barron Mfr.  
Fail-Safe Lighting  
Firefly Technology Corp.  
Flex-A-Lite West  
Gilbert Industries  
Guth Lighting  
Holophone  
Hotelite  
IEPC Corp.  
Infinity Lighting  
Isolite  
Jessup Manufacturing Co.  
Johnsonite  
Juno Lighting Group  
Kenall Mfg.  
Kilark  
Kirin Company  
LEDtronics  
Legion Lighting Co.  
Lightech  
Lightolier  
LightPanel Technologies  
Lightworld.com  
Lion Industries  
Lite Tech  
Lithonia Lighting  
Liton Lighting  
Los Angeles Lighting  
Lumark  
Lumenform Industries  
Magray Intl.  
Merlin Lighting  
Miller O.E.M. Supplies  
Mule Lighting  
Newstar  
Nico  
Nite Lites  
Nora Lighting  
NuArt Lighting Products  
OptiLED  
OSRAM Opto  
Semiconductors  
Paraflex Lighting  
Pathway Lighting Products  
Pauluhn Electric  
Manufacturing  
Pegasus Associates  
Pompeian Manufacturing  
Progress Lighting  
Prolume  
Ruud Lighting  
S.R.B. Technologies  
Self-Powered Lighting  
Siltron Emergency Systems  
SPI Lighting  
St. Louis Antique Lighting  
Sure-Lites Lighting  
TCP  
Thomas Research Products  
Trans-Lite  
Trinity Lighting  
Udec Corp.  
ValueLight.com  
Vista Lighting  
WF Harris Lighting  
Wila Lighting

**INDUSTRIAL/FLUORESCENT/HID**  
1st Source Lighting  
555 Design Fabrication  
Management  
AH Lighting  
Albeo Technologies  
Alexandra Lighting Systems  
Alumen B  
American Fluorescent Corp.  
Architectural Area Lighting  
Ardron-Mackie Limited  
AtLite Lighting  
Badger Lite Company  
Bartco Lighting  
Beghelli USA  
Belfer Group  
Beta Lighting  
Brodwax Lighting  
Bunzl Extrusion Columbia  
Columbia Lighting  
Cooper Lighting  
Corelite Lighting  
Crescent Lighting  
Crownlite Mfg. Corp.  
Custom Lighting  
Day-Brite Capri Omega  
Dazor Mfg. Corp.  
De Sisti Lighting  
Deco Lighting  
Delray Lighting  
Display Supply & Lighting  
DMF Lighting  
Duray Fluorescent  
Easylite Integrated Lighting  
Eclipse Lighting  
Eloco Lighting  
ElectroLux  
Elumina Technology Inc  
Encapsulte Intl.  
Engineered Lighting  
Products  
Fail-Safe Lighting  
Flex-A-Lite West  
Forum  
FSC Lighting  
GE Lighting Systems  
Geni-Strut  
Guth Lighting  
H.E. Williams  
Hesco Lighting  
Holophone  
Howard Industries  
Icon Intl.  
IEPC Corp.  
Icon Lighting  
InductionLighting.Com  
Industry & Design Light  
Infinity Lighting  
Inlite Corp.  
Inspired Sales  
Invue Lighting Systems  
Juno Lighting Group  
Kenall Mfg.  
Kilark  
Kirin Company  
Kurtzon Lighting  
LaMar Lighting Company  
Lancaster Glass  
Legion Lighting Co.  
Levy Lighting  
Lighting Services Inc.  
Lithonia Lighting  
Los Angeles Lighting  
Louis Poulsen Lighting  
LSI Industries/LSI Lighting  
Solutions Plus  
Lumark  
Luxmax Industries  
Lumenform Industries  
Luraline Products Co.  
Magray International  
McGraw-Edison Lighting  
Metalux Lighting  
Modular Wiring Systems  
National Rig Lighting  
Nemco Architectural Lighting  
Neo-Ray Lighting  
Newstar  
North Star Lighting  
NuArt Lighting Products  
One Step Lighting  
Pacific Lighting & Electrical  
Pappi Lighting  
Paraflex Lighting  
Paramount Industries

**FOR COMPARATIVE COMPANY SEARCHES, CLICK ON SOURCE DIRECTORY AT ARCHLIGHTING.COM**

Pathway Lighting Products  
Pauluhn Electric  
Manufacturing  
Phoenix Products Company  
Pioneer Lighting  
Portfolio  
Prudential Lighting  
RENOVA Lighting Systems  
Resolute  
Ruud Lighting  
Simkar Corp.  
SPI Lighting  
Sportlite  
Stringray Lighting  
Stonco Lighting  
Sunnex  
Targetti North America  
Tekla Illumination  
The Designers Edge  
The Light Edge  
Thomas Research Products  
U.S. Energy Sciences  
ValueLight.com  
Vantage Luminaires  
Visionaire Lighting  
Visioneering Corp.  
Waldmann Lighting Co.  
WF Harris Lighting  
Wide-Lite  
Wildfire

**TRACK**

Accent Kitchen & Bath  
Access Lighting  
Alico Industries  
Ambiance Lighting Systems  
Amerlux Lighting Solutions  
Architectural Lighting Works  
Architectural Products by  
Outwater  
Ardee Lighting  
Ark Lighting/Retro Lighting  
Manufacturers (RLM)  
Artcraft Lighting  
Artemide  
Avanti Lighting  
B & N Industries  
Bruck Lighting Systems  
Bunzl Extrusion Columbia  
C.H. Briggs  
Carpenter Emerg. Lighting  
Catalina Lighting  
CE Lighting of North America  
Con-Tech Lighting  
Cooper Lighting  
Crystallite Industries  
Day-Brite Capri Omega  
Display Supply & Lighting  
DMF Lighting  
Edison Price Lighting  
Electrol Engineering  
Elliptipar  
Energie Intl.  
Engineered Lighting  
Products  
ERCO Lighting  
Eureka Lighting  
Eurofase  
Eurolite  
Exhibit and Display Truss  
Fabbian USA Corp  
FarLight  
Flex-A-Lite West  
Flos USA  
Focalor  
Fox Electric Supply  
Geni-Strut  
Global Lighting  
Glucksman Lighting Products  
H. E. Williams  
Hafale America Co.  
Halo Lighting  
Hampstead Lighting  
Hera Lighting LP  
Icon Intl.  
IEPC Corp.  
Illuminating Experiences  
/Nemo  
Indy Lighting  
Inlite Corp.  
Janmar Lighting  
Jesco Lighting  
Juno Lighting Group  
Kania Lighting Systems  
Light Craft Mfg.  
Light Waves Concept  
Light-Project Intl.  
Lighting Services Inc  
LightingUniverse.com  
Lightolier  
Litelab Corp.  
Lithonia Lighting  
Liton Lighting  
Lucifer Lighting Company  
Magic Lite  
Mario Contract Lighting  
Mepla-Alit  
Merlin Lighting  
Mills Architectural Lighting  
Mole-Richardson Co.  
MP Lighting  
New Grand Light  
Nicor  
Nora Lighting

Nordic Aluminium  
OptiLED  
Outwater Plastics Industries  
P & H Company /Flex-A-Lite  
Pegasus Associates  
Phantom Lighting Systems  
Planlicht USA  
PLC Lighting  
Prescolite  
Progress Lighting  
Radionic Hi-Tech /Radionic  
Industries  
RSA Lighting  
Ruud Lighting  
Sea Gull Lighting Products  
Selecon USA  
Sistemalux  
Smedmarks  
Solux Design  
Specialty Lighting  
Spectrum Lighting  
Sunset Lighting and Fans  
Swivelier  
Targetti North America  
Task Lighting Corp.  
Tazz Lighting  
Tech Lighting  
TCP  
THHC Lighting  
Thomas Contract Lighting  
Times Square Lighting  
Translite Sonoma  
Troy Adams Design  
ValueLight.com  
VGK Lighting  
W.A.C. Lighting  
Zumtobel Staff Lighting

**WALL WASHERS**

AC Lighting Design  
Adventures in Copper  
Alexandra Lighting Systems  
Alico Lighting  
Alumen 8  
Ambiance Lighting Systems  
Amerlux Lighting Solutions  
Ametrix Lighting  
Architectural Lighting Works  
Ardee Lighting  
Ardron-Mackie Limited  
Art Lighting Gallery  
Artemide  
AtLite Lighting  
BACI by Remcraft  
Barbizon Electric  
Bartco Lighting  
Beachside Lighting  
Belfer Group  
Birchwood Lighting  
BL Innovative Lighting  
Boca Flasher  
Cathode Lighting Systems  
Celestial Lighting  
Charles Loomis  
Chauvet  
Color Kinetics  
Columbia Lighting  
Con-Tech Lighting  
Contrast Lighting ML  
Cooper Lighting  
Corelite Lighting  
Crownlite Mfg. Corp.  
Creative Systems Lighting  
Custom Lighting  
Day-Brite Capri Omega  
Day-O-Lite Manufacturing  
Delray Lighting  
Dialight Corporation  
Display Supply & Lighting  
DMF Lighting  
Dreampscape Lighting Mfg.  
Duray Fluorescent  
Eclipse Lighting  
Edison Price Lighting  
Electrix  
Electrodeux  
Electrol Engineering  
Elliptipar  
Engineered Lighting  
Products  
ERCO Lighting  
Eurofase  
Excelite  
Fabbian USA Corp  
FABCO Neon & Cold  
Cathode Fabricating Co.  
FarLight  
Finalite  
Flex-A-Lite West  
Flos USA  
Focal Point  
Forum  
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GammaLux Systems  
Gotham Architectural  
Lighting  
Guth Lighting  
H.E. Williams  
Hollmark Lighting  
Halo Lighting  
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Holophane  
Icon Intl.  
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Solutions  
Illuminision  
Indy Lighting  
Infinity Lighting  
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Insight Lighting  
IO Lighting  
JIS Lighting Systems  
Lighting  
ITRE - LuxLuce  
J&J Electronics  
J-Art Iron  
Janmar Lighting  
Jesco Lighting  
Juno Lighting Group  
Kirlin Company  
Kramer Lighting  
Kurt Versen Co.  
LaMar Lighting Company  
Ledalite Architectural  
Products  
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Liton Lighting  
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Luraline Products Co.  
Brandon Industries  
McFadden Trend Lighting  
Metalumen Mfg.  
Metalux Lighting  
Meyda Tiffany  
Modular Intl.  
Mole-Richardson Co.  
Neo-Ray Lighting  
Nora Lighting  
North Star Lighting  
Ocean Optics  
Ocean State Lighting  
OptiLED  
Orgatech + Omegalux  
OSRAM Opto  
Semiconductors  
Pacific Coast Lighting  
Pappi Lighting  
Pathway Lighting Products  
Phantom Lighting Systems  
Phoenix Products Company  
Pioneer Lighting  
Precision Projection Systems  
Prescolite  
Prudential Lighting  
R. Jesse & Company  
Rambusch Lighting  
Rebelle Architectural Lighting  
Remcraft Lighting Products  
RSA Lighting  
Ruud Lighting  
Sea Gull Lighting Products  
Selecon USA  
Shaper Lighting Lighting  
Simkar Corp.  
Smedmarks  
Solux Design  
SPI Lighting  
Starfire Lighting  
Sterling Products  
Super Vision Intl.  
Targetti North America  
Tekla Illumination  
The Light Edge  
Times Square Lighting  
Traxon USA  
Trinity Lighting  
USA Illumination  
ValueLight.com  
Vantage Luminaires  
Visa Lighting  
Visionaire Lighting  
Visual Lighting Technologies  
W.A.C. Lighting  
Wila Lighting  
Winona Lighting  
Wybron  
Zaneen Lighting

**LIGHT SOURCES**

**CATHODE & NEON**  
American Lighting  
Aristo Grid Lamp Products  
Atlantic Ultraviolet Corp.  
ATR Lighting Enterprises  
Cathode Lighting Systems  
EGL Company  
Ergonomic Accessories Intl.

Extronix/Div. of Barron Mfr.  
FABCO Neon & Cold  
Cathode Fabricating Co.  
Flex-A-Lite West  
Innovative Lighting  
Ins Design Studio  
LA Neon + Cathode  
Lighting & Electronic Design  
Lighting Sales Connections  
Manhattan Neon Sign Corp.  
Neon Design  
Signal-Tech  
Swon Design

**ELECTROLUMINESCENT**

Acceleroptics  
CeeLite  
E-Lite Technologies  
Electro-LuminX Lighting  
Lighting Corp.  
Lighting & Electronic Design  
Memtronik Innovations  
MKS  
Rogers Corp. Durel Div.  
Space Lighting

**HALOGEN**

AAMSCO Lighting  
Adesso  
AH Lighting  
Alico Industries  
Alexandra Lighting Systems  
Amplo Kamlite Laboratories  
Architectural Lighting Works  
Architectural Products by  
Outwater  
Artlight Creations  
ATR Lighting Enterprises  
Auroralight  
BACI by Remcraft  
Barbizon Electric  
Bartco Lighting  
Beachside Lighting  
Birchwood Lighting  
Brandon Industries  
Bridgeport Magnetics/Torran  
Bulbrite Industries  
Bulbtronics  
C.H. Briggs  
Carley Lamps  
Cast Lighting  
CE Lighting of North America  
CEC Industries  
Classic Illuminations  
Creative Systems Lighting  
CV Lighting  
Deep Landing Workshop  
Design Within Reach  
Display Supply & Lighting  
DMF Lighting  
e3light US  
Eiko  
Electrol Engineering  
Elumina Technology Inc  
Ergonomic Accessories Intl.  
Estiluz  
Eurofase  
Eurolite  
Extronix/Div. of Barron Mfr.  
EYE Lighting Intl.  
FC Lighting  
Flex-A-Lite West  
Focalor  
Focus Industries  
Gecko Enterprises  
Geni-Strut  
GSD Productions  
Hafale America Co.  
Halco Lighting Corp.  
Hampstead Lighting  
Harold's Fine Home Lighting  
Higuchi USA  
Hudson Valley Lighting  
Insight Lighting  
Intermatic  
Iris Design Studio  
J-Art Iron  
Jefferson Art Lighting Co.  
Kania Lighting Systems  
Kawahara Design  
KLS Electronics/Lamp  
Solutions  
Kurt Versen Co.  
Lamp Technology  
Lumiram Electric Corp.  
Lumisphere USA  
Luraline Products Co.  
Mepla-Alit  
Mitronix  
Modulightor  
Mole-Richardson Co.  
MP Lighting  
Nite Lites

Ocean Optics  
Optic-Light  
Orbit North America  
O'Ryan Industries  
Osram Sylvania  
Outwater Plastics Industries  
P & H Company /Flex-A-Lite  
Packaged Lighting Systems  
Pegasus Associates  
Philips Lighting (Canada)  
Philips Lighting Co.  
Premium Quality Lighting  
Prisma North America  
Promolux Lighting Intl.  
Rambusch Lighting  
Regency Lighting  
Remcraft Lighting Products  
Richelieu Hardware Ltd  
RSL Landscape Lighting  
Rubi Glass  
Satco Products  
Schott Fiber Optics  
Selby Furniture Hardware  
Selecon USA  
SLI Lighting  
Smith-Victor Corporation  
Solux Design  
SOS Lighting Devices  
Space Lighting  
St. Louis Antique Lighting  
Sterner Lighting  
Stockeyale  
Sunlite Mfg.  
Sunnex  
Task Lighting Corp.  
Tech Lighting  
Techni-Lux  
TerraDek Lighting  
The Designers Edge  
THHC Lighting  
Thin-Lite Corp.  
Thomas Contract Lighting  
Times Square Lighting  
TMS Lighting  
Topaz Lighting Corp.  
Triarch Industries  
Troy Adams Design  
Tungda Electrical & Lighting  
Udec Corp.  
Ultralec Fibre Optic  
Ushio America  
Venlux  
Vertex Lighting  
Vision3 Lighting  
W.A.C. Lighting  
Waldmann Lighting Co.  
Welch Allyn Lighting  
Products  
Westinghouse  
Wybron  
Yamagiwa USA Corp.

**HIGH/LOW PRESSURE SODIUM**

AAMSCO Lighting  
AC Electronics  
Atr Lighting Enterprises  
Baselite Corp.  
Bieber Lighting Corp.  
Brandon Industries  
Brownlee Lighting  
Bulbrite Industries  
Bulbtronics  
CE Lighting of North America  
Cyclone Lighting  
Eiko  
EYE Lighting Intl.  
FC Lighting  
Flex-A-Lite West  
Focus Industries  
Gecko Enterprises  
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Halco Lighting Corp.  
Halms  
Hampstead Lighting  
Herbeau Creations  
Hudson Valley Lighting  
Infinity Lighting  
Interferic Corporation  
Jefferson Art Lighting Co.  
Killark  
L.C. Doane Company  
Lamp Technology  
Lite Tech  
Luraline Products Co.  
Newstar  
Northwest Lighting Systems  
Ocean State Lighting  
Osram Sylvania  
Pennsylvania Globe Gaslight  
Philips Lighting (Canada)  
Philips Lighting Co.  
Premium Quality Lighting  
Regency Lighting  
Satco Products  
Sentry Electric  
Shat-R-Shield  
SLI Lighting  
Space Lighting  
Spring City Electrical Mfg.  
St. Louis Antique Lighting  
Sterner Lighting  
Steven Handelman Studios  
Sunlite Mfg.

Teclight Manufacturing  
Techni-Lux  
The Designers Edge  
Thin-Lite Corp.  
Tungda Electrical & Lighting  
US Architectural Lighting -  
Sun Valley Lighting  
Ushio America  
Vertex Lighting  
Westinghouse  
Wybron

**INCANDESCENT**

1 World Class Lighting  
20th Century Lighting  
555 Design Fabrication  
Management  
AAMSCO Lighting  
AC Lighting Design  
Action Lighting  
Adesso  
Alexandra Lighting Systems  
American Period Lighting  
Anvil Arts  
Artemus Lighting  
Artlight Creations  
ATR Lighting Enterprises  
Authentic Designs Colonial  
Barbizon Electric  
Baselite Corp.  
Beachside Lighting  
Bieber Lighting Corp.  
Birchwood Lighting  
Bone Simple Design  
Brandon Industries  
Bulbrite Industries  
Bulbtronics  
C.L. Sterling & Son  
Carley Lamps  
Cast Horn Designs  
CEC Industries  
Celestial Lighting  
Classic Illuminations  
Classic Lighting Corp.  
Copperworks Lighting  
Coronet Chandelier Originals  
Coronet Mfg. Co.  
Creative Systems Lighting  
CV Lighting  
Cyclone Lighting  
David Landis Design  
Deep Landing Workshop  
Delux Custom Lighting  
Design Elements  
Design Within Reach  
Designers Fountain  
Designers Lighting &  
Accessories  
Display Supply & Lighting  
DMF Lighting  
e3light US  
Eiko  
Electrodeux  
Electrol Engineering  
EncapSulite Intl.  
Entourage LA  
Estiluz  
Eurofase  
FC Lighting  
Flex-A-Lite West  
Flux Incorporated  
Focal Point  
Focus Industries  
Full Spectrum Solutions  
GeoX Enterprises  
George King Associates  
Ginger-Motiv  
GSD Productions  
H. A. Framburg & Co  
Halco Lighting Corp.  
Halms  
Hampstead Lighting  
Herbeau Creations  
Hudson Valley Lighting  
Infinity Lighting  
Interferic Corporation  
J-Art Iron  
Jefferson Art Lighting Co.  
JV Imports USA  
Kawahara Design  
Killark  
Kimball & Young  
Kozo Lighting  
Kurt Versen Co.  
Lamp Manufacturer Factory  
Outlet  
Lamp Technology  
LED5 c/o MLG Contract  
Leucos USA  
Light Craft Mfg.  
Lightoraters  
Lighting & Electronic Design  
Lightspan Illumination  
Lightworld.com  
Lion Industries  
Lite Makers  
Lite Tech  
Litehouse  
Litelab Corp.  
Litronics Intl. /Duro-Lite  
Lit. Moses Willard  
Luceplan USA  
Lummaria Lighting  
Lumiram Electric Corp.

Luraline Products Co.  
Luz Lampcraft  
Matthews Fan Co.  
Metro Lighting & Crafts  
Mills Architectural Light  
Mitronix  
Modulightor  
Mole-Richardson Co.  
Moon Shine Lamp & Sh  
Murray Feiss Import  
Newstar  
Noral Lighting  
Ocean State Lighting  
Omega Too  
O'Ryan Industries  
Osram Sylvania  
P & H Company /Flex-A-Lite  
Palmer Hargrave  
Parkdale Products  
Pennsylvania Globe Co.  
Phantom Lighting System  
Philips Lighting (Canada)  
Philips Lighting Co.  
Premium Quality Lightin  
Prisma North America  
Promolux Lighting Intl.  
R. Jesse & Company  
R.A.M. Lighting  
Rambusch Lighting  
Regency Lighting  
Remains Lighting  
Remcraft Lighting Produ  
Renaissance Contract  
Richelieu Hardware  
RSL Landscape Lighting  
Satco Products  
Schoolhouse Electric Co  
Selby Furniture Hardwar  
Shat-R-Shield  
Signal-Tech  
Simros  
SLI Lighting  
Smith-Victor Corporatio  
Space Lighting  
Special Lite Products Co  
St. Louis Antique Lightin  
Stacoswitch  
Steven Handelman Stud  
Stone Manor Lighting  
Task Lighting Corp.  
Techni-Lux  
TerraDek Lighting  
The Brighton Collection  
THHC Lighting  
Thin-Lite Corp.  
Thomas Contract Lightin  
Times Square Lightin  
Tokiastar Lighting  
Topaz Lighting Corp.  
Toyo Trading Co.  
Translite Sonoma  
Triarch Industries  
Trinity Lighting  
Two Hills Studio  
Universal Fixture Mfg. Co  
Ushio America  
Venlux  
Versailles Lighting  
Waterford/Wedgwood L  
Westinghouse  
Wybron  
Yamagiwa USA Corp.

**LEDS**

Act One Communication  
Action Lighting  
AlbEO Technologies  
Alpan Lighting Products  
Another Planet Lighting  
Ardron-Mackie Limited  
ATR Lighting Enterprise  
Barbizon Electric  
Birchwood Lighting  
Boca Flase  
Bruck Lighting Systems  
Bulbtronics  
CE Lighting of North Ar  
Celestial Lighting  
Chauvet  
Christopher Wray  
Color Kinetics  
Crescent Lighting  
CV Lighting  
Delta Light  
Design Specialty  
Dialight Corporation  
Display Supply & Lightin  
e3light US  
EIKO Company  
Eiko  
Element Labs  
Elumina Technology In  
eLux Lighting  
eStar Lighting  
Eurolite  
Everlite  
Everlite  
Extronix/Div. of Barron  
FarLight  
FC Lighting  
Firefly Technology Cor  
Forms-Surfaces  
Gemini One Five Lum  
Glucksman Lighting Pr

Despite the technological prowess exhibited at every turn... Despite the keen intellectual discussion...

In the final analysis, it's still one of these that turns on in your head.



the world's leaders and innovators at LIGHTCongress 2006.

Again the leaders of the lighting industry will converge at the fourth annual LIGHTCongress to discuss, debate and explore the technologies and issues facing the future of our industry. Be the first to see new products and technologies on display from the world's leading manufacturers and participate in our open panel discussions. Discussion topics will include Daylighting and Daylighting Technologies, and Innovations and Designs.

Who's coming to LIGHTCongress 2006?

Panelists for the 2006 forum are assembling now, with keynote speaker Jim Benya, renowned lighting designer and a leading authority on Daylighting. Last year's panelists, moderators and exhibitors included: OSRAM SYLVANIA, CeeLite, Lamina Ceramics, Color Kinetics, Philips, OSRAM Opto Semiconductors and more. In addition, the event was covered by over 75 reporters and writers from key media outlets.

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**Format:** Moderated panels, open forum  
**Admission:** \$100 – all sessions (includes meals)

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Ushio America  
Vertex Lighting  
Vossloh-Schwabe  
Waldmann Lighting Co.  
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**FLUORESCENT**  
1st Source Lighting  
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AC Lighting Design  
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American Acrylic Corp.  
American Power Products  
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Aqua Creations USA  
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Architectural Products by Outwater  
Aristo Grid Lamp Products  
Artemus Lighting  
Artlight Creations  
ATR Lighting Enterprises  
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Barbizon Electric  
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Bieber Lighting Corp.  
Birchwood Lighting  
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Bulbrite Industries  
Bulbtronics  
Candella Lighting Co.  
Carpenter Emerg. Lighting  
CE Lighting of North America  
Celestial Lighting

Chauvet  
Classic Illuminations  
Cornice Lighting Systems  
Coronet Chandelier Originals  
Crescent Lighting  
Crownlite Mfg. Corp.  
CS Lighting  
Creative Systems Lighting  
CV Lighting  
Cyclone Lighting  
Delray Lighting  
Delux Custom Lighting  
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EncapSulte Intl.  
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Panasonic  
Pappi Lighting  
Paramount Industries  
Pathway Lighting Products  
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Philips Lighting Co.  
Pioneer Lighting  
Plantelier  
PMc Lighting  
Pompeian Manufacturing  
Premium Quality Lighting  
Prisma North America  
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R. Jesse & Company  
Rambusch Lighting  
Regency Lighting  
Renaissance Lighting

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Sage Lighting  
Satco Products  
Schoolhouse Electric Co.  
Sentry Electric  
Shat-R-Shield  
Simros  
SLI Lighting  
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Space Lighting  
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Sternberg Lighting  
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The Original Cast Lighting  
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Vertex Lighting  
Visioneering Corp.  
W.A.C. Lighting  
Waldmann Lighting Co.  
Westinghouse  
Wila Lighting  
Wildfire  
Zadro Products

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Brandon Industries  
Bulbrite Industries  
CE Lighting of North America  
Eiko  
EYE Lighting Intl.  
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Flex-A-Lite West  
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Spring City Electrical Mfg.  
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Tungda Electrical & Lighting  
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**METAL HALIDE**  
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Anglo Kemlite Laboratories  
Architectural Lighting Works  
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Baachside Lighting  
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Brandon Industries  
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CE Lighting of North America  
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Electrol Engineering  
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Guth Lighting  
Halco Lighting Corp.  
Hanovia UV  
Higuchi USA  
Idaho Wood  
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Infinity Lighting

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Noral Lighting  
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Ocean State Lighting  
One Step Lighting  
Optic-Light  
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Pappi Lighting  
Paramount Industries  
Pathway Lighting Products  
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Targetti North America  
Techlight Manufacturing  
Techni-Lux  
Teron Lighting  
The Designers Edge  
Times Square Lighting  
Tungda Electrical & Lighting  
Ultralec Fibre Optic  
Sun Valley Lighting  
Ushio America  
Venture Lighting Intl.  
Vision3 Lighting  
W.A.C. Lighting  
Welch Allyn Lighting  
Products Div.  
Westinghouse  
Wildfire  
Wybron

**SPECIALTY**  
#1 Laser Light Show  
Equipment and Event Rentals  
555 Design Fabrication Management  
AAMSCO Lighting  
Action Lighting  
American Acrylic Corp.  
American Permalight  
Anglo Kemlite Laboratories  
Aristo Grid Lamp Products  
Atlantic Ultraviolet Corp.  
Auroralight  
Birchwood Lighting  
Boca Flasher  
Bulbrite Industries  
Bulbtronics  
C.H. Briggs  
Carley Lamps  
CEC Industries  
Chameleon Fine Lighting  
Circle Redmont  
Decorators Resource of Central Florida  
Design Specialty  
E-Lite Technologies  
EGL Company  
Eiko  
eStar Lighting  
Everlite  
Excalibur Bronze Sculpture  
Foundry  
Exltronix/Div. of Barron Mfr.  
EYE Lighting Intl.  
FC Lighting  
Flex-A-Lite West  
GAMProducts  
Gold Leaf Design Group  
Greenlite Lighting Corporation  
Guth Lighting  
Halco Lighting Corp.

Hanovia UV  
Heatron  
Hydro-Quip  
Interlectric Corporation  
Lamp Technology  
Laser Magic Productions  
Legendary Lighting  
Leviton Mfg. Co.  
Lighting & Electronic Design  
Litetronics Intl. /Duro-Lite  
Lumiram Electric Corp.  
Mole-Richardson Co.  
Navitar  
New West Furniture  
Ocean Optics  
One Step Lighting  
Optic-Light  
Optikinetics Limited  
Orbit North America  
Outwater Plastics Industries  
Philips Lighting (Canada)  
Promolux Lighting Intl.  
Satco Products  
Seleccon USA  
Sentry Electric  
Shat-R-Shield  
SLI Lighting  
SloanLED  
Smith-Vector Corporation  
Special FX Lighting  
St. Louis Antique Lighting  
Stone Manor Lighting  
Swon Design  
Techni-Lux  
THHC Lighting  
Traxon USA  
Tubular Skylight  
Tungda Electrical & Lighting  
Ultralec Fibre Optic  
Ushio America  
Uttermost Co.  
Venture Lighting Intl.  
Verlux  
Westinghouse  
Wildfire  
Xenon Corp.

**XENON**  
Alexandra Lighting Systems  
Alico Industries  
American Lighting  
Anglo Kemlite Laboratories  
Architectural Products by Outwater  
Auroralight  
B-Light USA  
Barbizon Electric  
Bartco Lighting  
Birchwood Lighting  
Bridgeport Magnetics/Tortran  
Bulbrite Industries  
C.H. Briggs  
Carley Lamps  
Cast Lighting  
CEC Industries  
Celestial Lighting  
Creative Systems Lighting  
CV Lighting  
Design Elements  
Display Supply & Lighting  
Eiko  
Estilux  
Eurofase  
FC Lighting  
Flex-A-Lite West  
Flux Incorporated  
Focus Industries  
Hafele America Co.  
Hampstead Lighting  
Higuchi USA  
Kimball & Young  
KLS Electronics/Lamp Solutions  
Kozzo Lighting  
Lamp Technology  
LBL Lighting  
Lighting & Electronic Design  
Lumisphere USA  
Matthews Fan Co.  
Mepla-Aflit  
Modulight  
National Specialty Lighting  
Ocean Optics  
Osram Sylvania  
Outwater Plastics Industries  
Pegasus Associates  
Phantom Lighting Systems  
Philips Lighting Co.  
Plantelier  
R. Jesse & Company  
Richelieu Hardware Ltd  
RSL Landscape Lighting  
Satco Products  
Smith-Vector Corporation  
Solar Light Company  
SOS Lighting Devices  
Strong Lighting  
Targetti North America  
Task Lighting Corp.  
Techni-Lux  
TernaDek Lighting  
THHC Lighting  
Tokistar Lighting  
Troy Adams Design

Tungda Electrical & Lighting  
Ushio America  
Verlux  
W.A.C. Lighting  
Wybron  
Xenon Corp.

**OTHER**  
**LIGHT MEASUREMENT EQUIPMENT**  
AEMC Instruments  
Electronics Diversified (EDI)  
Extex Instruments Corp.  
Huygen Corp.  
Independent Testing Laboratories  
Intl. Light  
Konica Minolta Corp.  
Instrument Systems Div.  
Lighting Sciences  
Mole-Richardson Co.  
Ocean Optics  
Optikon Corp.  
Osram Sylvania  
Philips Lighting Co.  
Photo Research  
Solar Light Company  
Spectra Cine  
Watt Stopper/Lagrangd

**SOFTWARE**  
Architectural Energy Corp.  
Chauvet  
Color Kinetics  
Columbia Lighting  
Cooper Lighting  
ECHO/MAIL Inc  
ETC  
Electronics Diversified  
ETC Architectural  
Future Light  
GE Lighting Systems  
GSD Productions  
IEPC Corp.  
Independent Testing Laboratories  
Lambda Research Corp.  
Leddite Architectural Products  
Lighting Analysts  
Lighting Control & Design  
Lighting Control  
Lighting Sciences  
Lighting Technologies  
Lithonia Lighting  
Luxicon Lighting  
Martin Architectural  
Nicolaudie America  
Solar Light Company

**OUTDOOR LUMINAIRES**  
**CANOPY MOUNT**  
1st Source Lighting  
555 Design Fabrication Management  
Academy Awning  
Aero Thermo Shields  
Allscape  
Alumen 8  
American Fluorescent Corp.  
Anvil Arts  
Ark Lighting/Retro Lighting Manufacturers (RLM)  
Arroyo Craftsmen  
Artcraft Lighting  
Aurora Lampworks  
Auroralight  
Authentic Designs Colonial  
B-K Lighting  
BACI by Remcraft  
Baja West  
Baldinger  
Beachside Lighting  
Beacon Products  
Beggli USA  
Beta Lighting  
Bieber Lighting Corp.  
Brass Light Gallery  
Bronzelite  
Brownlee Lighting  
C.V. Cole & Company  
Cast Lighting  
Cathode Lighting Systems  
CGF Design  
Color Kinetics  
Contrast Lighting ML  
Cooper Lighting  
CopperMoon  
Coronet Chandelier Originals  
Craftsmen Hardware Co.  
Crownlite Mfg. Corp.  
Custom Lighting  
Dabmar Lighting  
Dahlia  
Dallor  
Day-rite Capri/Omega  
Deep Landing Workshop  
Designers Fountain  
Designers Lighting & Accessories  
Dinico Products

DMF Lighting  
Duray Fluorescent  
Eclipse Lighting  
Electrodex  
Elliptair  
Elsoo Lighting Products  
Escort Lighting  
Exhibit and Display Trust  
Exltronix/Div. of Barron Mfr.  
Fabulux  
Fail-Safe Lighting  
Flex-A-Lite West  
Focus Industries  
Fourteenth Colony Light  
Gardco Lighting  
Garden Light  
Gemini One Five Lum  
Gladstone Industries  
Global Lighting  
H. A. Framburg & Co.  
Hanover Lantern  
Heritage Lanterns  
Herwig Lighting  
Hewi Lite  
Historical Arts & Casting  
Holophane  
Howard Industries  
Hudson Valley Lighting  
Hunza Lighting USA  
Hydrel  
Icon Intl.  
Ideal Electric Mfg. Co.  
IEPC Corp.  
ILEX Architectural Light  
Incon Lighting  
Inductionlighting.com  
Inter-Global  
Intl. Ironworks  
Invue Lighting Systems  
JO Lighting  
J-ART Iron  
J.H. Lighting  
Justice Design Group  
JV Imports USA  
Kelsey-Kane Lighting M  
Kenall Mfg.  
Kramer Company  
Kramer Lighting  
Lancaster Glass  
Lantern Masters  
Legendary Lighting  
Legion Lighting Co.  
Liberty Brass Turning Co.  
Lightcraft Architectural Dis  
Lightcrafters  
Lithonia Lighting  
Luxicon Lighting  
Living Well  
Louis Poulsen Lighting  
LSI Industries/LSI Light  
Solutions Plus  
Lumark  
Lumenform Industries  
Lumid  
Lumiere Lighting  
Luminis Con.Daz Lutrex  
Luraline Products Co.  
Magnaray Intl.  
Matthews Fan Co.  
Maxim Lighting Intl.  
McGraw-Edison Lighting  
Michael's Lighting  
Moda Lighting  
Moon Shine Lamp & Sh  
Murray Feiss Import  
Nemco Architectural Li  
Newstar  
Nightscaping By Loran  
Noral Lighting  
North Star Lighting  
NuArt Lighting Product  
Nutech Lighting Corp.  
OceanSide Coastal Light  
Old South Lamp Co.  
One Step Lighting  
Pappi Lighting  
Paramount Industries  
Pathway Lighting Prod  
Pennsylvania Globe Gas  
Phoenix Products Com  
Prudential Lighting  
Quozel  
R.A.M. Lighting  
Rebelle Architectural Li  
Remains Lighting  
Roy Electric Antique Li  
Ruvd Lighting  
Scientific Lighting Prod  
Simkar Corp.  
SNOG  
Solar Electric Power Co.  
Space Lighting  
Spaulding/Hubbell Light  
Spectrum Lighting  
Spring City Electrical M  
Steven Handelman Stu  
Stonco Lighting  
Stone Manor Lighting  
Swellier  
Tazz Lighting  
Techlight Manufacturing  
Tekla Illumination  
Teron Lighting  
The Light Edge





Martin Architectural  
Maxim Lighting Intl.  
MaxLite  
McGraw-Edison Lighting  
Michaels' Lighting  
Mills Architectural Lighting  
Moda Lighting  
Modular Intl.  
MP Lighting  
Mule Lighting  
National Rig Lighting  
National Specialty Lighting  
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Old South Lamp Co.  
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Rejuvenation  
Remains Lighting  
Restoration Arts  
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Shaper Lighting Lighting  
Shell Light  
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Smart Industries  
SNOC  
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Space Lighting  
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Special Lite Products Co.  
Spectrum Lighting  
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Stone Manor Lighting  
Super Vision Intl.  
Swiveller  
Sylvan Designs  
Tahoe Lighting  
Talisman Glass  
Targetti North America  
Tazz Lighting  
Techlight Manufacturing  
Tekla Illumination  
Teron Lighting  
TerraDek Lighting  
The Federalist  
The Lighting Edge  
THHC Lighting  
Thin-Lite Corp.  
Tokistar Lighting  
Trans-Lite  
Triarch Industries  
Two Hills Studio  
Ultralights Architectural Lighting  
Unique Lighting Systems  
Urban Archaeology  
Sun Valley Lighting  
ValueLight.com  
Vantage Luminaires  
Victor Illuminating  
Vision3 Lighting  
Visonaire Lighting  
Vista Lighting  
Vista Prof. Outdoor Lighting  
Visual Lighting Technologies  
Waldmann Lighting Co.  
We-el Lighting USA  
Wendelighting  
WF Harris Lighting  
Wild West Designs  
Solar Control/Daylighting  
CPI Intl.  
EasyLite Integrated Lighting  
Elumina Technology Inc.  
Hunt Dimming  
Hunter Douglas Contract  
IEPC Corp.  
Inter-Global  
Leviton Mfg. Co.  
Lighthouse  
LICONA  
MechoShade Systems  
Novitas  
PCI Lighting Control Systems  
PLC Multipoint  
So-Luminaire Daylighting  
SolarOne Solutions  
Solatube Intl.  
Tubular Skylight  
Wide-Lite

**SPECIALTY**

**FIBER OPTICS**

Advanced Lighting Systems  
Alexandra Lighting Systems  
American Lighting  
Baltic Leisure Co.  
Bendalite Flexible Neon  
BL Innovative Lighting  
Carley Lamps  
Coemar  
Conservation Lighting Intl.  
Crystalite Industries  
DeSantis Designs  
Drama Lighting  
Elumina Technology Inc.  
Eurofase  
EuroLite  
Fiberstars  
Flex-A-Lite West  
Fox Electric Supply  
High Sierra Lighting  
Illumination Management Solutions  
Kawahara Design  
KLS Electronics/Lamp Solutions  
Laser Magic Productions  
Lazarus Lighting Design  
Lighting Sales Connections  
Lighting Services Inc  
Litelab Corp.  
Lucifer Lighting Company  
Lumenyte Intl. Corp.  
Lumid  
Luxam  
LYX Furniture & Light  
Magic Lite  
Martin Architectural  
Mica Lighting Company  
Mule Lighting  
National Specialty Lighting  
Neon Design  
NoUVIR Research  
O'Ryan Industries  
Optic-Light  
Opto Technology  
Packaged Lighting Systems  
Plantelier  
Schott Fiber Optics  
Smith-Victor Corporation  
Solux Design  
Special-T Lighting  
Starfire Lighting  
Stemberg Lighting  
Super Vision Intl.  
TerraDek Lighting  
TPR Enterprises  
Ultratec Fibre Optic  
ValueLight.com  
Visual Lighting Technologies  
Wide-Lite

**LIGHT PIPE/TUBULAR SKYLIGHT**

Architectural Energy Corp.  
Coemar  
De Sisti Lighting  
Duray Fluorescent  
Herwig Lighting  
Huvco/The Daylighting Division  
LYX Furniture & Light  
Norlux Corporation  
North Star Lighting  
P & H Company /Flex-A-Lite  
Reflexite Display Optics  
Smith-Victor Corporation  
Solatube Intl.  
Sun Pipe Co.  
Sunled Corporation  
TIR Systems  
Tubular Skylight  
Velux America

**LINEAR STRIP (ROPE/TUBE/STRING)**

Act One Communications  
Action Lighting  
American Lighting  
American Permalight  
Architectural Cathode Lighting  
Architectural Products by  
Outwater  
Ardee Lighting  
Baltic Leisure Co.  
Bendalite Flexible Neon  
BL Innovative Lighting  
Boca Flasher  
Bulbrite Industries  
Chauvet  
Color Kinetics  
Crystalite Industries  
CS Lighting  
Creative Systems Lighting  
CV Lighting  
Dainolite  
Design Specialty  
Diaight Corporation  
Display Supply & Lighting  
E-Lite Technologies  
Electrix  
Element Labs  
Elumina Technology Inc  
FABCO Neon & Cold Cathode  
Fabricating Co.  
FC Lighting  
Fiber Optic Designs

Flex-A-Lite West  
GAMProducts  
Jesco Lighting  
Kelsey-Kane Lighting Mfg.  
LEDtronics  
Levy Lighting  
Light Waves Concept  
Light-Project Intl.  
Lighting & Electronic Design  
Lighting Sales Connections  
Liton Lighting  
Lumid  
Lumificient Technologies  
LYX Furniture & Light  
Magic Lite  
Miller O.E.M. Supplies  
National Specialty Lighting  
Nora Lighting  
Norlux Corporation  
OptiLED  
Outwater Plastics Industries  
P & H Company /Flex-A-Lite  
Packaged Lighting Systems  
Phantom Lighting Systems  
Plantelier  
Primal Lite  
Prolume  
Roberts Step-Lite Systems  
RSA Lighting  
Simkar Corp.  
SloanLED  
Starfire Lighting  
Sunset Lighting and Fans  
Sylvan Designs  
Targetti North America  
TerraDek Lighting  
Ultratec Fibre Optic  
ValueLight.com  
W.A.C. Lighting  
Wendelighting

**B-Light**

The new B-Light architectural lighting catalog is now available. This 190-page consolidated catalog features the full line of Xenon and LED linear products, which are used to light the world's architectural masterpieces. Order your free copy today. Distributed in the USA by Charlotte International Partners Inc. For more information contact:



2078 Carolina Place  
Fort Mill, SC 29708  
fax: 803.396.1451  
e-mail: jdsmith@usa.com  
**CIRCLE 160**

**The Brighton Collection**

The Brighton Collection is a manufacturer of traditional lighting; however, the only traditional thing about our lighting is that it is made in a traditional way. Otherwise, our fixtures also embrace contemporary designs. While our strength is in creating unique designs for high-volume hospitality trade, we also have a wide range of product lines readily available for instant delivery for architects and designers. For more information, e-mail: us@brightoncollection.com, call 973.598.1580, or fax 973.598.1583. **CIRCLE 161**



**Cooper Lighting**

Add a truly unique touch in both commercial and residential spaces with Halo Lighting's new handmade-glass Art Glass Collection. Offered in four styles, in small and large sizes, and with a variety of lamp types and wattages, the pendants can be mounted directly to Halo's new Architectural Flexible Track System or to existing Halo and Linea systems, or canopy mounted directly to the ceiling. [www.cooperlighting.com](http://www.cooperlighting.com). **CIRCLE 162**



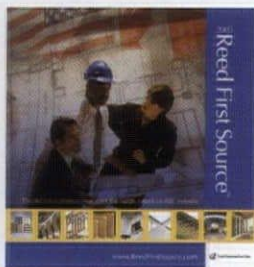
## Crestron

Crestron is an industry leader in commercial and residential lighting control and automation solutions, including the award-winning iLux multi-zone lighting and shade controller; the revolutionary infinET wireless mesh network dimmers, perfect for MDU and retrofit applications; and the designer Cameo keypads, 75% smaller than Decora keypads, and that control lighting, HVAC, and AV systems. **CIRCLE 163**



## First Source

First Source, available as a printed desk reference as well as online, is an integrated building product information system. First Source delivers objective manufacturer's product selection and specification information to industry professionals in the formats they prefer. SPEC-DATA and MANU-SPEC are additional products that allow users to customize, organize, and compare data and specifications to find exactly what they need. Visit [www.ReedFirstSource.com](http://www.ReedFirstSource.com), or call 770.209.4902 for more information. **CIRCLE 166**



## Eclipse Lighting

Designer and manufacturer of award-winning indoor/outdoor architectural sconces, decorative and vandal-resistant fixtures using the latest technology in fluorescent, HID, and induction lamps. We carry a variety of sizes and styles adaptable to custom needs. Many of our fixtures exceed guidelines in light distribution (dark sky) and safety standards (ADA). Eclipse Lighting is located in Schiller Park, Illinois. For customer service, e-mail Eileen at [Eileen@eclipselightinginc.com](mailto:Eileen@eclipselightinginc.com); for quotes, e-mail Jason at [quotes@eclipselightinginc.com](mailto:quotes@eclipselightinginc.com); call 847.260.0333; or fax 847.260.0344. **CIRCLE 164**



## Jesco

The Jesco Quick Adapt System is all about design flexibility—the ability to take the same element and carry the theme throughout a variety of applications. The functional and contemporary Pendant and Spot Light designs adapt to the Monorail System, the Mono/Multipoint System, as well as the Standard Track System, with complementing Wall Ensembles. **CIRCLE 167**



## Electrix

Electrix manufactures a wide range of performance cove systems to efficiently drive illumination across walls and ceilings. Our AX series was designed around T5 fluorescent lamp technology with an asymmetric extruded aluminum reflector that adjusts 35 degrees. This series has a compact fixture design of 3 inches high by 5 inches wide. Electrix also offers a complete line of field curveable, linear, and ramped cove lighting products for architectural applications. **CIRCLE 165**



## Lighting Analysts

Using the AGI32 software, you will advance your lighting evaluations beyond numerical calculation and into the realm of physically based visualization. AGI32 can tackle lighting verification for virtually any project with a variety of graphical techniques from basic mass modeling to pseudocolor and stunningly realistic imagery. See it at [www.agi32.com](http://www.agi32.com). **CIRCLE 168**



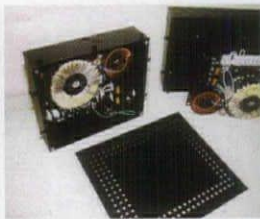
## Phoster Lighting

Super bright and super slight, available in 1W, 3W, and 7W configurations (12W, 24W, and 36W coming in Q1 2006), PLE6 provides up to 90% savings on electrical costs in a 2 1/2 x 2 x 3-inch package. Available in numerous degrees of optical spreads, PLE6 outperforms all other directed light sources in accent, spotting, directed, and ambient lighting applications. Warm white and cool white are standard; additional color temperatures are available upon request. Robust, due to its proprietary thermal and power management designs, PLE6 comes with a guarantee for zero maintenance over five years. Installation attachments allow for easy set up, indoor and outdoor, ceiling or floor, and for concrete, gip rock, and ply wood. **CIRCLE 169**



## Semper-Fi

Semper Fi Power Supply manufactures UL-listed indoor and outdoor remote transformers that ensure no noise, no maintenance, and full light output. Indoor units can be recessed into an insulated wall with up to eight transformers in an enclosure. Outdoor transformers include above-grade stainless or DIRECT burial. **CIRCLE 172**



## Primelite

Sign Lights by Primelite, a wide assortment of arm bends. Available in HID, PL, or incandescent, all of our interchangeable gooseneck arms and heads are sold separately, made of 100% aluminum parts, and painted with a virtually indestructible powder resin, baked for a high-quality finish. Available in 22 standard colors, custom colors are available. Primelite offers an entire line of decorative outdoor and indoor fixtures made in the USA. All cataloged fixtures can be constructed to your own unique design. Call us at 516.868.4411, 800.327.7583, or visit us online at Primelite-MFG.com. **CIRCLE 170**



## Tech Lighting

All T-trak components and elements are now available in white. This new finish provides designers with an opportunity to capitalize on T-trak's versatility, while blending seamlessly with a white ceiling. Available options include incandescent, ceramic metal halide, and fluorescent lamp configurations for heads and a host of decorative pendants. Perfect for even the most demanding retail environment. For more information, call 800.522.5315 or visit [techlighting.com](http://techlighting.com). **CIRCLE 173**



## Selux

SonneLITER offers breakthrough technology with the first photovoltaic luminaire that can run a 35W T6 metal halide lamp from a 24V direct current supply. Received "Selection" award in IESNA 2005 product report. Please visit the "SonneLITER" section in Products/Exterior at [www.selux.com/usa](http://www.selux.com/usa) or call 800.735.8927 for more details. **CIRCLE 171**



## THHC

Introducing the new 120V Xelogen Series in E11 mini-can, E12 candleabra, and BA15D double-contact bayonet bases. These line-voltage lamps are ideal for applications where compact appearance is desired without the requirement of a low-voltage transformer. The Xelogen 120V series comes in 35W, 50W, and 75W with clear and frosted finishes. Lamp color temperature is 2900K with an average life of 5,000 hours. In addition, 120V Xelogen are cooler than a halogen lamp, emit virtually no UV rays, and can be utilized in open fixtures. Please visit [www.xelogen.com](http://www.xelogen.com) or call 877.Xelogen. **CIRCLE 174**



TO ADVERTISE CONTACT FATIMA RUIZ AT 646.654.5763 (PHONE), 646.654.4417 (FAX), OR FRUIZ@VNUBUSPUBS.COM

**PRODUCT MANAGER**

W.A.C. Lighting is seeking a Product Manager to oversee the firm's Product Research and Development and Engineering teams, as well as its many design consultants. The manager will coordinate product design and value engineering efforts with W.A.C. Lighting's teams in Garden City, NY headquarters, the firm's west coast operations in California, and in the company owned, ISO 9001-certified manufacturing facilities and offices in China. This executive will also be in-charge of new product development for new and existing markets, and upgrading the firm's current lines of track, recessed, pendants, undercabinet and monorail lighting.

**Qualifications**

- 3-4 years product design experience in the lighting industry
- Bachelor Degree from Art or lighting design school helpful
- Knowledge of AutoCAD or drafting is helpful
- Proven creative ability with attention to recent market trends
- Working knowledge of production flow
- Proven ability to effectively manage multiple responsibilities
- Effective managerial skills
- Proven verbal and written communication and interpersonal skills, Bi-lingual in Chinese and English, both in written and verbal form is a plus

For immediate consideration, please e-mail your resume to: hr@wacighting.com. Please note salary history on your cover page. Given the high volume of responses, only qualified candidates will be contacted. W.A.C. Lighting is an Equal Opportunity Employer. M/F/D/V encouraged to apply.

**LIGHTING DESIGNER**

Prominent NY architectural lighting design firm is looking for highly motivated, talented designers. Our projects are diverse, global and challenging. Our staff is obsessed with the delivery of great illumination. Applicants are to be fluent in graphic programs and have a US Passport or Green Card. Please email to info@fmsp.com

**LIGHTING DESIGNER/PROJECT MANAGER**

Seeking architectural lighting designer with 2+ years experience, proficiency in AutoCAD and AGI32. Must have designed lighting for a variety of project types, and be capable of managing multiple design projects and coordinating with clients. Effective writing and hand drawing/sketching skills a must. Degree in Lighting, Architecture, or A/E, and NCQLP certification preferred.

Lam Partners Inc is based in Cambridge, Massachusetts and provides great opportunities for motivated individuals to take responsibility for challenging design projects in a highly collaborative, demanding, but non-authoritarian setting. Visit us at www.lampartners.com. Contact glennh@lampartners.com.

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details

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## Getting the Green Light

How has sustainability impacted the design process? Do energy codes, LEED ratings, and materials recycling really foster

more sustainable design? Could lighting design play a greater role than other building elements in promoting sustainability?

THIS MONTH, WE ARE EXCITED TO SAY, THERE WERE TOO MANY RESPONSES TO PRINT. PLEASE VISIT [ARCHLIGHTING.COM](http://ARCHLIGHTING.COM) FOR ADDITIONAL INDUSTRY PERSPECTIVES.

**CHARLES STONE, IALD PRESIDENT, PRINCIPAL | FISHER MARANTZ STONE; JULIE BLANKENHEIM, ASSOCIATE IALD, SENIOR DESIGNER | LDA, CHICAGO**

The growing emphasis in every project on sustainability efforts, energy-code compliance, LEED ratings, and materials recycling is having a significant impact on the lighting design process. The IALD Energy Task Force was created this January to determine how the organization can present a united front on these issues.

The importance of this topic was demonstrated by the spirited discussion during the October 22 Town Hall Meeting at the 5th Annual IALD Education Conference. Common refrains heard during the meeting include recommending an "evidence-based standard" to establish "feasible and reasonable" sustainability codes, and speaking with one voice to advocate "achievable" energy limits. The IALD has pledged to take a leading role in promoting best practices in energy and sustainability, and its Board of Directors approved an energy policy during an October 23 meeting. The IALD Energy Task Force is now working on a business plan—to be adopted at the January 2006 board meeting—outlining attainable, measurable, and affordable ways for the IALD to communicate with energy and sustainability policy-making bodies in the U.S. and worldwide.

This challenge calls for funding to enable professional lighting designers to conduct detailed analyses and widen their representation and guidance on the committees of other organizations that are developing codes, standards, and rating systems affecting lighting. Initial programs approved during the board meeting include power-density case studies, evidence-based design, lighting controls, and LEED advisory participation. Ultimately, the task force's work will establish a unified voice for the IALD. As a unified voice, the necessary expertise of the lighting design community will be more respected, credible, and effective.

**ANICA LANDRENEAU, DEVELOPMENT MGR. | CENTER FOR CLEAN AIR POLICY**

As natural lighting plays an increasingly pivotal role, not only in the energy performance of a building, but in its indoor environmental quality, lighting design is becoming more important to substantive architecture. Lighting must achieve balance and harmony with both its electrical and natural components; lighting design is increasingly a matter of where glazing will occur or if light shelves will be used. Energy codes and green building rating systems may require less energy usage, but they also invite innovative solutions to bringing light into a space in more beautiful and poetic ways. As one of the more visible components of energy-efficient design, the way light enters and moves through a building may be the best calling card for sustainability.

**ANN RED, PRESIDENT | IO LIGHTING**

Lighting design should definitely play a greater role in sustainable design. One could argue that poorly conceived and executed lighting systems need more maintenance than HVAC systems. I am sure there is a plethora of building owners/managers that would agree! Sustainable lighting means nothing if it's not designed for people. Lighting professionals understand and design with this in mind. The good and bad news is the extensive array of lamps, fixtures, and controls available; it is very difficult

for architects and interior designers to understand whether one solution is more sustainable than another without knowing how to read the technical data associated with the product. With that said, I believe that a building should not be deemed "sustainable" without having an IALD member responsible for the lighting. Designing quality sustainable lighting systems not only requires a good understanding of lamp technology, light fixture construction, luminaire optical performance, and lighting control methods, it also requires a keen understanding of how to create a performance-based lighting system for people!

**CHARLES CAMERON, PARTNER | LUCE GROUP**

Concern for sustainability is creeping slowly into the design process, but too often it is merely window dressing. In the worst cases, making a project "green" is an excuse to neglect other facets of the design. Alternately, when aesthetics are primary, there is an assumption that the environmental impact can be disregarded. Both of these approaches are irresponsible. Environmental impact must become a fundamental concern of how we design and an equal facet with aesthetics, user needs, maintenance, and capital cost. This requires lighting designers to go beyond government regulations and LEED standards, as well as work to improve these codes. As lighting is a major component of the energy used in buildings, we are irresponsible to do otherwise.

**MARTIN MOECK, ASST. PROFESSOR | PENNSYLVANIA STATE UNIVERSITY**

Sustainability has impacted the design process by lowering power-density levels and shifting attention to lamps and reflectors with higher efficiency and less mercury content. Daylighting has really not changed, because engineers don't have the tools to determine annual daylight levels. Energy codes, LEED ratings, and materials recycling don't really foster more sustainable design, because only a handful of firms have experience in extensive energy modeling of combined heating, cooling, and lighting, as well as the optimization of façade shape and elements. There are cases where building energy loads have gone up after remodeling to fulfill LEED requirements (i.e., the Seattle Municipal Building). And, no, lighting design cannot play a greater role in promoting sustainable design. It is building insulation that is required. Building air leakage is another problem, and inefficient building cooling. Building shape is another issue, and architects are not trained to optimize it.

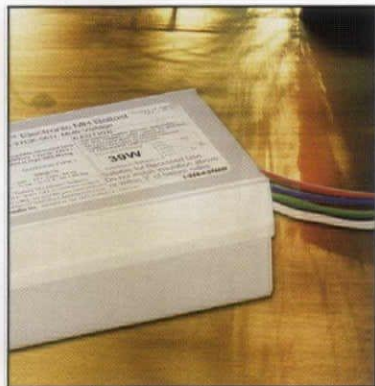
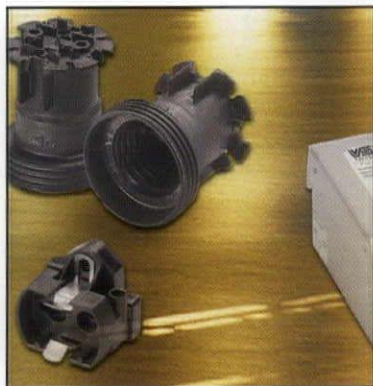
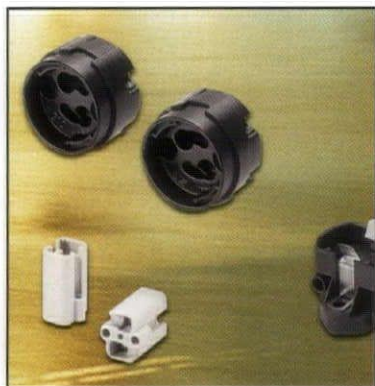
**MEG SMITH, SUSTAINABLE DESIGN SPECIALIST | LIGHTOLIER**

Sustainable approaches to the built environment can only be considered a positive development; however, there is a "dark side" which should be acknowledged. Energy-code compliance constraints challenge the lighting designer's ability to deliver an aesthetically pleasing environment that meets task requirements and responds to the "human factors" emphasized in sustainable guidelines. Fortunately, technological advances provide flexibility to help the design professional maximize energy savings, optimize the performance of the lighting design, and enhance the visual environment; all while meeting sustainable criteria.

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