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Cover: Illustration by Jameson Simpson
This page: The Elizabeth Arden store on Fifth Avenue, New York; a view of the concourse at the Barajas International Airport, Madrid, Spain; and Vibia's Ameba Pendant Luminaire.

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COMMENT

Lighting: Appliance or Application?

On the daunting list of pressing issues facing the United States, where every item is a priority, the subject of energy surely must rank at the top. Energy, no matter its source—coal, oil, wind, hydro, or solar—influences every part of U.S. and international society, determining politics, economics, research, technology, and the environment.

The Obama administration, in its commitment to keep its campaign promises, has introduced an energy and climate bill within its first 100 days. The 600-page draft bill is built around the goal of reducing greenhouse gas emissions through what is being referred to as a “cap-and-trade” system. The proposed legislation calls on large-scale entities such as electric utilities, oil companies, and industrial manufacturers—who collectively contribute the largest amount to the nation’s carbon production—to reduce emissions to 3 percent below 2005 levels by 2012, and to 20 percent below 2005 levels by 2020. But details about this process of crediting and borrowing carbon offsets have not been made clear, and if this well-intended proposed legislation is to stand any chance of success, more concrete information is needed now rather than later.

While the larger picture is important, the early stages of this legislative process raise two critical questions: Where does lighting fit into the proposed energy legislation, and who is Washington consulting when it comes to lighting and lighting-related issues?

Upon closer examination of the proposed bill, lighting is one of several lesser-known items “buried” in the draft text, and is grouped with appliances mandated to meet new efficiency standards. Manufacturers that sell “best in class” energy-efficient appliances would be rewarded by financial incentives. Sounds good, right? No. Since when did lighting become an appliance like a washing machine or a dryer? Can a luminaire, with all its components and all its intricacies, be simplified this way, rather than being treated as an application and part of a larger system in buildings and infrastructure? I don’t think so.

Take for example outdoor lighting, a broad term that covers everything from roadways and parking lots to landscapes and stadium lighting. There are many issues at play—light trespass, glare, sky glow, and others. Organizations like the Illuminating Engineering Society (IES) have been working for decades, in more recent years alongside the International Dark Sky Association (IDA), to develop a system that could address all the nuances of outdoor lighting, from urban to rural settings. The most comprehensive outcome has been the creation of the Model Lighting Ordinance (MLO) to set forth guidelines for navigating outdoor lighting scenarios. The most recent draft, a 25-page document that was open for public review and comment through April 10 at the IDA’s website, incorporates a new set of measurement criteria to account for lighting emitted from a fixture in all directions including backlight, uplight, and glare. In this context, how can outdoor lighting be reduced to the same standard as an appliance?

Compounding the issue is the political pressure to put a draft bill into play and pass the 2009 Energy Act before Congress breaks—only a few months away. To date, the lighting design community really has not been engaged at the political level. If ever there were a time for that to happen, it would be now. Organizations such as the International Association of Lighting Designers (IALD) and the IES, which represent lighting practitioners from both the design and engineering fields, should reconsider their organizational bylaws to more actively engage the political system.

And this engagement shouldn’t just stop with designers; all stakeholders must be fairly and equally represented at the table when it comes to drafting any legislation on lighting—manufacturers, electric utility companies, lighting research entities, government agencies, and public advocacy groups. Just as transparency is being demanded of our financial institutions, the same should be expected of the organizations, institutions, and regulatory agencies that are setting the rules and standards to which lighting designers and manufacturers will have to adhere. There’s too much at stake to leave this industry-defining law to those who are not familiar with lighting. The proposed legislation, with its treatment of lighting as an appliance, will have an impact well into future generations. It will establish building protocols and influence the lighting and energy marketplace for decades to come, and not necessarily in a good way.

Politicians cannot blindly regulate lighting. It is critical at this early stage in the drafting of new energy legislation to provide a logical, clear message. Enacting new energy policy cannot simply be about getting it done, as if it were an item on a checklist, it has to be about getting it done right. Otherwise, the nation will miss another opportunity to set forth a progressive energy policy that modernizes our electric grid and addresses global warming. The lighting community must step forward and help set the course for this 21st century defining issue.

ELIZABETH DONOFF
EDITOR
BRIEFS

EDITED BY JENNIFER LASH

Divine Inspiration

Montreal-based BCK Design's proposal to illuminate the façade of the Gesù features a yellowish glow resembling a candle flame created by LEDs around the theater entrance, but uses mostly white light to accent the church. The designers were inspired by the building's history and wanted to highlight its dual functions as a church and a theater.

Three Montreal designers won a competition outlining ideas to illuminate the façade of the Gesù, a church built in 1865 that now houses the oldest operating performance hall in Québec. Mathieu Koch, David-Alexandre Côté, and Steve Blanchette of BCK Design received $10,000 for their proposed design, titled Réencontre sur les marches de l'Église, or, roughly translated, "Meeting at the steps of the church."

Organized by the Quartier des spectacles Partnership, the Gesù, and Design Montreal, the contest attracted 37 entries from a variety of designers, including students, from all over the world. Participants were asked to express the artistic and cultural vocation of the Gesù through a lighting design concept while also honoring the building's history. Submissions were evaluated on the following criteria: the concept's ability to highlight the heritage of the Gesù; the degree to which the concept communicates the Gesù's identity and presence within the broader context of the Quartier des spectacles (an area in downtown Montreal that is home to 30 cultural venues); and the innovative and aesthetic qualities of the project and the experience created by the installation.

Koch, Côté, and Blanchette found inspiration in the history of the Gesù. The designers wanted to create a lighting design that took a respectful approach to highlighting and distinguishing between the church and the theater—the two primary uses of the building. "Our proposed lighting solution for the religious and cultural facilities...is based on the dual functions that have been defined decades ago by the institution," the proposal reads. The entrance to the theater is curved into the curve of the front facade of the church. The proposed design calls for perforated sheet metal that is backlit by LEDs emitting a warm glow, similar to the flame of a candle. Proximity sensors modulate the color and lighting intensity of the installation according to the movement of passers-by.

In contrast, the lighting concept for the church façade includes mostly white light, but is "enhanced in strategic locations by an amber color, a symbol of spirituality, intelligence, and strength," according to the proposal. Now that the design competition is complete and lighting design firms have been relatively unaffected. Overall, only 15 percent of respondents indicated staff layoffs at the administrative and junior-designer levels.

The top reported challenges for 2009 are finding new work (46 percent) and collecting payments owed (37 percent). But despite the difficult economic times, which respondents expect to last at least 12 months, the optimists (50 percent) are slightly ahead of the pessimists (46 percent). In a statement, IALD executive vice president Marsha Turner noted, "Significantly, it's not all doom and gloom...there is a lot of trepidation—understandably—but there is definite optimism that comes through in the feedback." Full survey results are available at iald.org.

IALD RELEASES ECONOMIC IMPACT SURVEY

In January, the International Association of Lighting Designers (IALD) invited its 800 members to participate in an online economic impact survey to determine how they're being affected by the current financial crisis. Approximately 178 people responded to the 12-question survey, which asked about layoffs and other cuts, the greatest challenges lighting designers face in the current business climate, and their outlook for the remainder of 2009 and beyond.

Seventy-five percent of all respondents indicated that the economy was having either a strong negative or slight negative impact on their business. Eleven percent of respondents reported a positive impact, and 14 percent indicated no change at all.

Of those who reported a negative impact on their firms, 53 percent indicated their reactions have ranged from more prudent spending to budget cuts and hiring freezes. By contrast, 29 percent have not had to implement any cost-saving measures. And unlike the many architecture firms that have had to make drastic personnel cuts, lighting design firms have been relatively unaffected. Overall, only 15 percent of respondents indicated staff layoffs at the administrative and junior-designer levels.

In January, the International Association of Lighting Designers (IALD) recently established the Don Aumann Memorial Lecture in Lighting Efficiency. Don Aumann, who died suddenly in 2007, was an influential part of the team at the CLTC. The lecture committee is seeking nominations for speakers at the event, which the CLTC hopes to hold annually. Speakers can include researchers, advocates, and design professionals who have demonstrated leadership and accomplishment in energy efficiency and lighting. The event will be held at the University of California, Davis. There is no set date for the first lecture, as it will occur depending on the availability of the speaker who is selected. To nominate a speaker, contact CLTC Outreach Director Kelly Cunningham at kcunning@ucdavis.edu.

Lecture, In Memoriam

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CRITIQUE

HAPPY LANDINGS

MADRID AIRPORT'S TERMINAL 4 MAY BE HIGH-TECH, ARCHITECTURALLY, BUT THE EFFECT IS HUMANE

Architect Richard Rogers avoided monotony in the three-quarter-mile-long terminal (top) by painting the steel columns in a graduated rainbow of color that supports wayfinding in the main concourse (above right). In ticketing and security areas (above left), the columns are an international safety yellow.

Baggage handlers and air traffic controllers know Madrid Barajas International Airport by the semantically loaded abbreviation MAD, but there’s actually something soothing about the airport’s new Terminal 4. Heaven knows there’s little sanity to be had in air travel these days. Planes are so cramped they make steerage accommodations on a 19th century ocean liner look luxurious. Security has supplanted service as the byword of airport customer relations. And at most international terminals, the term “port of entry” doesn’t suggest the act of arrival so much as a cavity search.

In this brutal context, Terminal 4 comes as a revelation of humane placemaking, realized through high-tech design. The hub for Iberia Airlines and its OneWorld Alliance partners, such as American Airlines, British Airlines, and Quantas, Terminal 4 was designed by the London-based Richard Rogers Partnership (now Rogers Stirk Harbour + Partners) with local architect Estudio Lamela and U.K. lighting consultants Spears and Major Associates.

Terminal 4 opened in 2006; it was designed to double the airport’s capacity, to an anticipated 50 million passengers per annum by 2050. Most airport authorities deal with growth through accretion, the result, as at many hospitals, being complexes of mind-boggling density and disorder. Rogers, however, is famous as a high-tech pioneer, and at Terminal 4 he enforced strict adherence to the modernist trope of form follows function. The complex is laid out as a sequence of parallel linear volumes, subdivided into a main building and a satellite that are separated by several hundred feet of tarmac and linked by an underground train. The volumes clearly correspond to the different moments in the passenger arrival and departure processes, and light and color act as organizing devices throughout.

There are six parallel volumes in total—three short and one long in the main building, and one short and one long in the satellite. Despite their differences in length, the volumes have the same basic structure: Rows of canted Y-form columns support a
The undulated roof canopy at Terminal 4 is a complex assemblage of modular components (above left), supported by canted Y-form columns. Skylights admit daylight into the terminal interiors (above), which are crisscrossed by catwalks with glass pavers. Translucent ETFE louvers in the skylights help to distribute the daylight evenly through the space.

Continuous roof canopy. The structural modularity isn’t monotonous. The canopy, a dominant visual element through much of the interior, billows and ripples in gentle response to the subdivisions of structure, space, and program below, its form connotes flight without succumbing to clichés about airplane wings and tall fins.

In every bay, the canopy’s bamboo-clad ceiling parts to make way for oculi that admit daylight through translucent ETFE plastic louvers. Beneath certain oculi, Speirs and Major suspended three metal halide projectors focused on two-directional mirror reflectors, supplementing the sun on overcast days. The canopy resolves itself on the exterior as a scalloped overhang, which provides shade during the intense Madrid summers with assistance from canted steel louvers along the glass facades.

Along the three-quarter-mile length of the two longer volumes, the Y-form columns that support the roof canopy are painted in a graduated spectrum of colors, shifting from blue at one end, through green, yellow, and orange, to red at the other end. The columns’ chromatic scale plays like the song “Chopsticks” across the facades and along the interiors, reinforcing the significance of light to the project while imparting a subtle sense of place and rhythmic movement that would be absent from a monotone colonnade.

Rogers houses the main airport operations beneath the canopies in open, multi-story structures of exposed concrete. Wells between each structure transfer daylight to the lower levels and demarcate different zones in the arrival and departure sequence.

Glass-walled elevators and catwalks with glass pavers make connections between the various zones and levels, without inhibiting the distribution of daylight.

The underside of each slab is lined with custom luminaries with a saucer-like form that the designers charmingly call “The Wok” and that neatly echoes the geometry of the oculi. The luminaires, aligned on a grid, take the place of a conventional suspended ceiling, and the gaps between the circular fixtures afford glimpses of the concrete slab and metal ductwork and conduit above—a classic Rogers high-tech peekaboo effect.

If Rogers has a shtick, it is the sometimes playful, sometimes fetishistic exposure of technology as a lot of parts. Certain design features at Terminal 4, the saucer lights and glass-walled elevators, for instance, have made appearances in earlier projects, such as his 1986 Lloyd’s of London tower. But where Lloyd’s is a celebration of technology for its own sake, with the same kind of shiny attractiveness that adolescent boys find in anime and Xbox, Terminal 4 is a far more gentle place, thanks in large part to the quality and temperament of its natural and electric lighting.

Rogers’s ambitions for architecture seem to have evolved over time. Not that he has lost the modernist faith in technology. Instead, he is putting technology to work for people. Le Corbusier’s old adage, “la maison est une machine à habiter”—the house is a machine for living—still applies. What’s changed at Terminal 4 is not the definition of building as machine, but the relationship between machine and life. NED CRAMER
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Architectural Lighting magazine announces the SIXTH ANNUAL A|L LIGHT & ARCHITECTURE DESIGN AWARDS honoring outstanding and innovative projects in the field of architectural lighting design.

The A|L DESIGN AWARDS recognize and reward excellent lighting design within the specific criteria relevant to each category (Residential, Interior, and Exterior). To acknowledge issues of notable importance in today’s practice of lighting design and techniques particular to lighting, A|L also presents a series of awards that achieve the Best Use of Color; the Best Incorporation of Daylight; and the Best Lighting Design on a Budget—three issues that are increasingly important considerations for designers. Winning projects are published in the July/August 2009 issues and featured on archlighting.com.

Design professionals practicing worldwide may enter one or more projects in multiple categories. Submissions are encouraged from all design professionals—architects, lighting designers, interior architects, interior designers, and landscape architects. Projects must have been completed after July 2007.

Full details are available at www.aldesignawards.com
The Pursuit of Passion

There are no hard numbers on how many minority lighting designers are practicing, but one thing's for sure: the current number isn't enough.
EARLY EXPOSURE AND A STRONGER OUTREACH EFFORT ARE NECESSARY TO ATTRACT MORE MINORITY TALENT TO THE LIGHTING DESIGN PROFESSION. CURRENTLY, OF THE 38 STUDENTS ENROLLED IN THIS YEAR’S GRADUATE LIGHTING PROGRAM AT PARSONS THE NEW SCHOOL FOR DESIGN, NONE ARE BLACK OR HISPANIC, AND THREE ARE ASIAN-AMERICAN.

Tanya Hernandez says she gets the same reaction when she meets a new project team: “that surprised look.” Hernandez is the principal of Durham, N.C.-based HART Design Group, a lighting designer, an engineer, and a black woman. “People kind of look over me assuming I’m not the person I am. So I’m really good at introducing myself, with a smile.”

“When I go to a meeting, I am the only black person in the room,” notes lighting designer Edward Bartholomew, who runs the Integrated Design Lab in the department of architecture at the University of Washington campus in Seattle. “You’re clearly aware of that, but you don’t want to draw too much attention to it.”

“Sometimes I get over-welcomed because I’m this token of diversity,” says Carlos Inclán, a Hispanic lighting designer at Portland, Ore.-based engineering firm GLUMAC. While Hernandez, Bartholomew, and Inclán say they often are the only minorities in meetings, no one knows just how many minorities are employed in the U.S. lighting profession. “Maybe 100?” Bartholomew guesses. “That’s just from going to Lightfair and looking around.”

DO THE RIGHT THING

Lightfair attracts close to 20,000 people annually. If the hard numbers reflect the isolation from going to Lightfair and looking around, “people kind of look over me assuming I’m not the person I am. So I’m really good at introducing myself, with a smile.”

Based in the U.S., the Illuminating Engineering Society of North America also defers from asking its members about race. “We have never tracked it. And I think that’s a plus,” says communications manager Jennifer Jones. “The profession of architectural lighting is relatively young,” notes Marsha Turner, executive vice president of the International Association of Lighting Designers (IALD). “Ethnic diversity has not been an issue or concern because it’s a fairly small niche profession.” Also, the IALD’s membership is international, and “it’s hard to talk about minorities without being U.S.-centric,” says communications manager Jennifer Jones.

Bartholomew, who grew up in South Central Los Angeles, says that kind of early exposure can make all the difference. He recalls standing out as a good student and being encouraged to pursue a career in the post office. Today, he has a job that he loves and thinks about all the time. “It’s important for students to see [people who enjoy their work]. It can be part of their life and give them the kind of passion they would normally see in a basketball player or a rapper. Having a job that’s your passion—wow, that’s beyond anything I could have dreamed of when I was growing up.”

ENCOURAGING PARTICIPATION

Manriquez, who helps select new hires for SmithGroup’s lighting studio, says few minority candidates apply. That’s no surprise, given the demographics at the two U.S. schools that offer graduate-level lighting degrees: At Rensselaer Polytechnic Institute, 10 students are working toward a Master of Science in lighting; none are black, one is Asian-American, and one is Hispanic. And of the 45 students total in either the Master’s or Ph.D. Architectural Sciences programs with a concentration in lighting, one is black, one is Asian-American, and one is Hispanic. The numbers don’t differ much at Parsons the New School for Design: Of the 38 students enrolled in the graduate lighting design program, none are black or Hispanic; and only three are Asian-American. In 2007, Parsons began an initiative to diversify its curriculum, improve financial aid, and attract a more diverse pool of high school students. “Our approach is comprehensive, so we see student recruitment tied directly to faculty recruitment, curricular shifts, teaching methods, and our relationships to communities of color in New York City and around the U.S.,” says Jesse Villalobos, coordinator of the Parsons Diversity Initiative.

One of the reasons that few minorities are drawn to the lighting profession may be that, in general, the profession is relatively unknown, especially compared with parallel careers in architecture and engineering. But Bartholomew points out that, because of its specialty nature, architectural lighting is "more stable" and "less rarefied" than those disciplines. "There are great career options in this field," he says. "The IALD should step up. There should be a stronger effort to reach out, especially to historically black colleges and black engineering schools."

"People from different cultures have different things to bring to the table," notes Inclán, whose contributions as a Mexico-born designer range from a familiarity with the metric system to an understanding of how sustainability and economy work hand in hand—an especially valuable tool in an economic downturn. Rodrigo Manriquez is the lighting design studio leader at SmithGroup in Detroit and a Chilean-American. "I don’t see my talents being what’s valuable [about me as an employee],” he explains. "I see my value as my different way of looking at the same thing.”
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FOCUS

Elizabeth Arden, New York

CHALLENGE: TO ILLUMINATE A NARROW SPACE FEATURING A DISTINCTIVE CURVED 14-FOOT-TALL WALL OF RED LACQUERED PLATE STEEL WHILE ENSURING THAT THE RED DOES NOT OVERPOWER THE RETAIL VENUE

Project Elizabeth Arden on Fifth Avenue, New York  Design Team Highland Associates, New York (architect); RS Lighting Design, New York (lighting designer)  Project Size 900 square feet
Images Courtesy of Elizabeth Arden  Manufacturers Bartco Lighting, Legion Lighting, Lutron, Mark Architectural Lighting, Philips Color Kinetics, RSA Lighting

Fabricated from factory-bent steel with a glossy finish, the curving red wall is the store's boldest architectural statement. In the ceiling, a curving band of light from 50W Biax lamps flows with the wall. The width of the curving backlit cavity was an important element in preventing the store, its contents, and its customers from appearing red.
FOCUS

The incandescent chandelier hanging in the back of the Elizabeth Arden flagship store on Fifth Avenue in New York is a vintage luminaire discovered by the store owners. It is meant to be a visual highlight in the narrow space. To make the company's products visually pop off the shelves, the lighting designers specified warm white LED linear case lights with a color temperature of 3000K.

SOLUTION Elizabeth Arden's signature color is red, so it's fitting that a red door has welcomed visitors into the flagship store on Fifth Avenue in New York since 1930. In the newly remodeled 900-square-foot space, an eye-catching 14-foot-tall red-lacquered plate-steel wall now curves through the narrow volume. With such a bold use of color, it was important to make sure everything else in the store—including employees and customers—didn't end up bathed in a red hue. Moreover, the lighting consultant, Randy Sabedra of RS Lighting Design in New York, wanted to keep the lighting design minimal. "I'm sure there was some apprehension from the owners and architect that we weren't doing 'normal' stuff," he says, such as using more standard, traditional fixtures. "But it shows visually in the space and works really well."

"We came up with the idea that we'd have a lighting solution that featured the red wall but gave white light into the space," Sabedra says. "That's where the backlit lens cavity came into play." Following the curve of the red-lacquered wall, the cavity is approximately 18 inches deep and 12 inches wide, and it incorporates Biax lamps positioned about 1 foot above a diffused membrane. Sabedra says an early challenge of the lighting design was ensuring that the cavity was appropriate for the space and that it allowed the lamps to deliver direct white light.

An overscaled cabinet to the left of the store entrance was designed to contain active video and ad campaigns. "At some point we realized the potential for it being too visually loud, so [the active video] turned into static background graphics," Sabedra notes. To illuminate the cabinet, he designed parallel rows of square open accent lights with single and double 75W AR111 lamps.

Flanking the mirrors at the makeup stations are vertical linear fixtures featuring frosted glass with a 75 lensed lamp to create diffused light. "It was key that there was soft diffused lighting to highlight the faces," Sabedra says. Also, some of the accent lights above the stations—65W MR16 lamps arranged in a radial pattern—are aimed toward the customer sitting in the chair, providing additional lighting.

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"The back of the store, near the Red Door Spa entrance, features a vintage chandelier—a subtle reminder that Elizabeth Arden has been at this location for more than 75 years. Found on a shopping trip by the store owners, the incandescent crystal chandelier has the sparkle and scale Sabedra was after. "The primary goal of the chandelier was to be a visual highlight at the end of the store," he says, noting that the luminaire achieves its purpose amid the store's minimal yet striking lighting design. "Everywhere you look something catches your eye and seduces your senses."
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In today’s economy, lighting designers are fighting to keep current clients, attract new work, and keep their practices and careers thriving. The key to survival? Flexibility.
MANY LIGHTING DESIGNERS ARE EMPLOYING A FLEXIBLE APPROACH WHEN IT COMES TO BUSINESS SURVIVAL STRATEGIES. FOLLOWING THE ECONOMIC DOWNTURN, BUDGETS FOR DESIGN AND CONSTRUCTION ARE IN FAR SHORTER SUPPLY THAN IN PREVIOUS YEARS, AND EVERY POTENTIAL CLIENT IS LOOKING TO SPEND THEIR RESOURCES ECONOMICALLY AND EFFICIENTLY.

The key to survival for architectural lighting firms in the most alarming economy since the Great Depression is flexibility in every aspect of one's practice—from business structure to design approach.

Adapting—whether it means working on only the design phases of a project and not overseeing build-out, developing an alternative fee structure, exploring a new market, or the ability to change and think in terms of both short- and long-term timelines—is the key to many an architect and lighting designer’s business survival strategy in 2009. "If somebody on the street asked me what I do, I’d say I’m a designer. But really, I’m a service provider," says Mitchell B. Kohn, whose solo lighting design practice is based in Highland Park, Ill.

WORK IS WORK

Budgets for design and construction are far tighter than in previous years, and every potential client is looking to spend what resources they have left economically and efficiently. "[Clients] expect the same quality of work, but they don’t want to pay," says Janet Nolan, owner of J.S. Nolan + Associates Lighting Design in San Francisco. "Everybody wants a deal. And as much as we may not like it, it is the reality right now."

There is widespread hope on the part of the architectural and lighting design communities that with the Obama administration unleashing some $775 billion in stimulus money, some of those new New Deal dollars could find their way to design firms. But much of the work in the pipeline that lighting designers will see in the years to come will most likely be the result of renovation, expansion, and updating the energy efficiency of buildings, says Nancy Kleppel of New York-based business consultancy Nancy Kleppel Consulting. Kleppel—who has been involved in the architecture profession for more than 20 years—and her firm tend to offer their business consulting services to design firms. "It’s going to become a bigger chunk of available work," Kleppel says. "And that’s not a bad thing, since it’s work that will benefit us all."

Kleppel encourages architects and lighting designers to position themselves to capture jobs that, while not necessarily the most glamorous, do provide a steady cash flow. For example, she recently advised an architect just starting out that a replacement window project was precisely the type of work to get a foot in the door and start building a relationship with a client that could lead to repeat business and larger-scale projects. "Now more than ever people are open to [commissions they might not have previously considered] because they need the income," Kleppel says. "Whoever you are, wherever you’re from, I don’t think anybody should be too proud to take those jobs when they’re relevant."

EXPAND YOUR SERVICE AREA, AND YOUR SCOPE OF SERVICES

Some firms, such as Marina del Ray, Calif.–based Integrated Lighting Design (ILD), achieve flexibility through geographic diversity. With more than 20 years experience, principal Babu Shankar has overseen projects in the United States, India, China, Japan, Malaysia, and the Philippines. While the financial downturn has hit economies all over the globe, having an international practice means Shankar’s firm sees more potential business opportunities, allowing it to have greater latitude than firms only operating in one market or one country. "If one place fails, the other place picks up, and so on," Shankar explains.

ILD’s project portfolio currently includes 70 percent hotel and hospitality work, 20 percent retail, and 10 percent high-end residential, which in the past few years has been a component of many new hotel campuses. Shankar observes that hospitality work is starting to dry up and is worried about the second half of 2009. Like most architects, he’s had some projects canceled and others put on hold or delayed.

But Shankar remains optimistic. Despite the economic turmoil, he still has clients who believe now is an opportunity time to build—as long as they have the financing. "I’ve gotten two projects where people feel it’s a good time to build because everybody is hungrier and they can get better pricing," he notes.

Lighting design firm Available Light, which has offices in Boston and New York, is structured into three areas of business: architectural lighting, museum exhibition design, and corporate communications lighting (mainly for trade shows). Diversification in three different markets gives Available Light great flexibility, and also improves its design services. "A lot of what we learn about high-tech lighting—what’s the latest in the industry—has come from the trade show work, which then feeds it’s way into the architecture, museum, and theatrical work," says company owner and lighting designer Steven Rosen.

FOSTER CLIENT RELATIONSHIPS

For Rosen, Kohn, and others, another key to surviving these turbulent times—both in terms of obtaining new projects and maintaining professional ties—is networking and keeping up with old clients. Attracting new business is always welcome, but in a time when finding new work is difficult, it’s important for lighting design firms to realize that they need to work just as hard to keep the business they already have. Cultivating relationships with the current client base can go a long way, and staying on top of projects and what clients are doing is essential to gain momentum in this economy. If anything, these economic times require not just flexibility, but tenacity. "It’s a little bit of forecasting—keeping a chart of who said they’ve got such and such a project and they’ll need me at some point in the future," Kohn explains. "Then it’s labour the follow-up—a phone call saying, ‘You mentioned a project a couple of months ago, are you working on it?’" Ethan Butterfield

Ethan Butterfield is a Washington, D.C.–based journalist who has written for Builder, Architect, and other publications.
White Unveiled

Introducing the new definition of white light. 1000 lumens delivered. 20 watts consumed. LED efficiency without sacrificing architectural quality. It's the downlight you've come to expect from Calculite.

Contact your Lightolier sales representative for a catalog of this exciting offering or download the catalog online at www.lightolier.com.
Seamlessly Architectural

Our 6” recessed offering is a modern interpretation of specification grade conventional downlighting based on the principles of the ELEMENT line — integrating recessed lighting with architectural design. All trims are constructed of die cast aluminum making them extremely robust and completely seamless without any overlapping sheet metal components. The flangeless version is truly flangeless, without a visible lip of any kind from below the ceiling. For additional features and technical specifications visit ELEMENT Lighting booth #2335 at Lightfair — May 5-7, New York, NY.
When it comes to lighting controls, residential lighting always has been a leader. Largely because of the straightforward control functions associated with homes, the flexibility, ease of use, and reliability of home dimming systems often are better than the best commercial lighting control systems. Long before computer-based systems could manage commercial buildings with advanced dimming functions like scene controls, home systems already were capable of creating whole-house scenes with the push of a button.

Considering the benefits of even a modest level of integration and connectivity, lighting control design should be looked at as a system, not as individual components. As residential lighting systems are planned, controls should be planned, too. This enables informed design and budget choices early enough in the process to allow major construction planning and electrical rough-in.

There are three ways to approach residential lighting controls:

- **Manual switching and dimming.** While the basic concepts of switching and dimming using wallbox devices haven't changed much since the invention of the dimmer, the equipment has. Recognizing the wide range of styles, contemporary devices are now designed to fit any décor. Other improvements include multilocation dimming and the ability to control light sources ranging from incandescent to state-of-the-art low-voltage, fluorescent, and LED.

- **Whole-house integrated lighting control system.** Although these systems often are expensive, they remain popular in the high-end residential market. Their ease of integration with HVAC, home theater and entertainment, and energy management systems helped to create the residential home theater and low-voltage industry.

- **A mixture of manual and scene controls, and controls capable of remote and automated functions.** Affordable systems can be assembled using power-line communications-based systems and scene-preset controls. While more expensive, wireless lighting control options are becoming very powerful and flexible, allowing designers to balance system capability with cost and complexity as well as easily accommodating the infrastructure of older homes.

**Scene-based design**

The first step in contemporary controls design is to employ scene controls. In many rooms of a house, there often are more than one group of lights, such as downlights, accent lights, sources, and a chandelier. A scene is a previously set ("preset") combination of dimmer settings for each group, designed to achieve a particular atmosphere. Scenes can be chosen by manually adjusting three or four dimmers until the space feels right, but ideally, the pressing of a single button will turn on the lights and fade them to the chosen scene. The four-scene preset controller is the most popular contemporary lighting control system on the market today.

In addition to mood-creating use in dining rooms and kitchens, scene preset controllers are good for home theaters and family rooms with A/V systems. Today's preset scene controllers "talk" to the home theater controller, and with the push of a button the A/V system is activated, the curtains are closed, and the lights are dimmed to the preferred viewing scene.

The scene preset controller typically is used to control only a single room. To address multiple rooms, a system is required. A discreetly located push-button anywhere in the home can activate an array of whole-house scenes including: welcome home, party, security, or panic. Scenes also can be activated by a car transmitter, key fob, alarm system, or home energy-management system.

**System type: wired or wireless**

The top of the line residential control systems offer a high level of integration and customization, making them the system of choice for new high-end homes. A central processor allows programming and communications functions including powerful whole-house commands. Most of these systems have dimming cabinets distributed throughout the home, and each lighting group is home run wired back to the dimming panel. Low-voltage wiring connects control stations and interfaces to audio and HVAC control systems. These systems often are furnished and installed by specially trained low-voltage contractors, many of whom also install other communications and home entertainment electronics.

But these systems call for significantly different wiring of the home. If central dimming cabinets are used, power wires from each controlled group of lights must home run to the dimmer cabinet, adding considerable material and labor cost and creating areas of congested wiring. It is not uncommon to see large homes with rooms devoted to dimming cabinets and related equipment.
TECHNOLOGY

RESIDENTIAL LIGHTING CONTROLS

POWER-LINE CARRIER SYSTEMS

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>COMPOSE PLC</td>
<td>Lightolier Controls’ power-line carrier system based on X-10 technology.</td>
</tr>
<tr>
<td>DECORA HOME</td>
<td>Leviton’s power-line carrier system based on X-10 technology.</td>
</tr>
<tr>
<td>CONTROLS</td>
<td>A mesh network control system by Smart Labs Technologies using simulcast power-line and RF signals to increase the reliability of X-10 power-line carrier systems.</td>
</tr>
<tr>
<td>PULSEWORKX</td>
<td>A UPB carrier system by Powerline Controls Systems.</td>
</tr>
<tr>
<td>X-10</td>
<td>A residential power-line signaling system sold under its own name and a number of labels, some with variations and proprietary hardware to make the system work better.</td>
</tr>
</tbody>
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RF WIRELESS SYSTEMS

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENSPIRE</td>
<td>Vantage Controls’ RF wireless control system using proprietary radio repeater technology.</td>
</tr>
<tr>
<td>JETSTREAM</td>
<td>Centralite’s RF wireless control system using Zigbee technology.</td>
</tr>
<tr>
<td>MIRO</td>
<td>Wattstopper’s RF wireless control system using proprietary “Top Dog” repeater system technology.</td>
</tr>
<tr>
<td>RADIO RA AND</td>
<td>Lutron’s RF wireless control system using proprietary radio repeater system technology.</td>
</tr>
<tr>
<td>HOMESERVE</td>
<td>A proprietary standard for low-speed, short-range, RF wireless control communications using mesh network technology in the 2.4-GHz band. A large number of companies belong to a common working group.</td>
</tr>
<tr>
<td>ZIGBEE</td>
<td>A proprietary standard for low-speed, short-range, RF wireless control communications using mesh network technology in the 900-MHz band. A large number of companies belong to a common working group.</td>
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WHOLE-HOUSE SYSTEMS

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
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<tbody>
<tr>
<td>BRILLIANCE II</td>
<td>Lightolier’s residential control system using interwired devices and programmed functions.</td>
</tr>
<tr>
<td>ELEGANCE</td>
<td>Centralite’s residential control system with a wide range of options, based primarily on dimming panels and a low-voltage cable network. Capable of complex interfaces and functions.</td>
</tr>
<tr>
<td>HOMEWORKS</td>
<td>Lutron’s residential control system with a wide range of options including central dimming panels, HomeServe RR, and wired dimmers and switches. Capable of complex interfaces and functions.</td>
</tr>
<tr>
<td>LITE TOUCH</td>
<td>A residential control system with a wide range of options, based primarily on dimming panels and an Ethernet cable network. Capable of complex interfaces and functions.</td>
</tr>
<tr>
<td>VANTAGE</td>
<td>A residential control system with a modest range of options, based primarily on dimming panels and an Ethernet cable network. Capable of complex interfaces and functions including Enspire RF devices.</td>
</tr>
</tbody>
</table>

Wireless systems have the principal advantage of using conventional residential wiring. The electrical contractor wires the home as if manual switches were being used. But instead of low-voltage control wires, lighting system communications are either radio frequency (RF)-based, like Wi-Fi, or use power-line signaling. Regardless of whether the project is a new home, a remodel, or an addition, a complete system can be installed. Wireless options include:

- **Power-line signaling systems.** These systems communicate using the home’s power wires. The reliability of signaling can be an issue and may require special power panel filters, but the equipment is inexpensive and widely available.

- **RF systems with repeaters.** These systems communicate using radio signals that often are strong enough to reach every room in the house. Repeaters are used to extend range and cover large homes.

- **Mesh network systems.** These systems use low-power radio signals organized into a mesh.

CHOOSING A SYSTEM

Cost usually will be the dominant issue. Good dimmers and switches don’t add a lot of expense to a home lighting system, and a few scene controllers in key rooms are a good choice for budget-driven projects.

For a modest cost increase, start adding wireless functions. Some of the most popular include “path of light” designs that control hallways and rooms on the path from entrance door to kitchen, and “panic” scenes that activate key indoor and outdoor lights in emergencies.

LOOKING FORWARD

Thinking ahead, the collapse of housing prices doesn’t necessarily change the lighting market. In fact, there is a good chance that people will stop flipping homes and actually live in and update them. Better lighting and controls are comparatively high-benefit, low-cost improvements that anyone can make. Moreover, new LED lighting systems are sure to encourage even better whole-house lighting controls. Just a few years ago, whole-house controls were only for the very rich, but it is possible that solid-state lighting will serve as a catalyst to make them practical in every home. JAMES R. BRYA
There's no shortage of lighting products hitting the market, as evidenced by the 250-plus submissions received for the A|L 2009 product issue. As the result of a challenging selection process, the following pages showcase more than 145 fixtures across 12 categories—a collection of some of the latest designs and technical innovations in lighting and a sign that even in an economic downturn, manufacturers still are introducing quality products into the marketplace.

Going green is an ever-growing trend and energy-efficient luminaires are found in every category. Also, LED technology continues to make strides. This year's submissions included a large number of LED-based luminaires—most noticeably in the downlight, emergency/exit, and outdoor/landscape categories. With the arrival of spring comes a flurry of conferences and trade shows, and there's sure to be a plethora of new product releases. But for now, check out the latest lighting offerings on the following pages. A|L
DECORATIVE

JESCO LIGHTING GROUP
ENVISAGE III GROK
Characterized by a variety of original designs with aesthetic continuity, the Envisage III GROK collection of contemporary-style ceiling fixtures, pendants, wall sconces, and table (shown) and floor luminaires features metal housings and frames in a range of plated or painted, colored or metallic finishes. Available lenses and shades include glass, opal or optic glass, or fiberglass. Lamping options are halogen, compact fluorescent, incandescent, or LED. • jescolighting.com • CIRCLE 81

VIBIA AMEBA
Formed by five different shapes that can be combined to offer an infinite range of compositions, Ameba is a pendant luminaire concept that is adaptable to every space and to every need and preference. Made up of a white or charcoal gray lacquer housing and a top and bottom acrylic diffuser, it takes 13W triple four-pin compact fluorescent lamps, is suspended from adjustable aircraft cables, and is wired in such a way that only one J-box is needed no matter the number of sections used. • vibiahght.com • CIRCLE 83

KICHLER LIGHTING BARAGA
A contemporary fusion of clear glass and polished metal, the Baraga Collection features heavy glass shades with an internal optic variation for added depth and interest. Each fixture has rectangular arms, takes halogen lamps, and is finished in polished nickel. The convertible three-light chandelier can be chain-hung or installed as a semi-flush ceiling mount. • kichler.com • CIRCLE 82

VISA LIGHTING SEQUENCE
Completing the Sequence family, the Sequence indoor/outdoor wall sconce can be vertically or horizontally mounted and boasts a white acrylic housing in two sizes with clean, pure lines. It takes both fluorescent and LED sources (with static or variable color) and features oven-cured no-VOC acrylic powder coat for painted finishes and oven-cured low-VOC clear coat on metal finishes. • visalighting.com • CIRCLE 84
Occasionally even the most beautiful objects have to bask in reflected glory.
BEAR CREEK GLASS  PRINCIPIA
A contemporary chandelier named in honor of Sir Isaac Newton’s most famous volume of work, Principia is characterized by LED-illuminated globes zoned with an adjustable color. Round, semiglobe, and bell styles are offered, as are three sizes—three lights, seven lights, or 13 lights—and four colors, including ivory and desert sunset. bearcrekglass.com • CIRCLE 85

CHRISTOPHER MOULDER  SHADE
Inspired by a simple lampshade, Shade is a low-voltage fixture that uses its aircraft aluminum body to conduct electricity to the 28 10W high-efficiency Xenon Festoon lamps situated around its bottom edge. It measures 16 inches in diameter and 7 inches tall, comes with a fully dimmable 300W magnetic transformer, and is offered in torch red, white, or silver metallic. christophermoulder.com • CIRCLE 86

EUREKA LIGHTING  LEX
Lex is a simple architectural statement that boasts clean styling in a bold chrome finish. Offered in surface-mount and pendant versions, the former can be easily installed on many surfaces while the latter is cable-mounted for easy installation and adjustment. Measuring 16 inches in diameter and 4 1/2 inches tall, it creates diffused light from fluorescent or incandescent lamps. eurekalighting.com • CIRCLE 87
BALDINGER ARCHITECTURAL LIGHTING
LA BAGUETTE RING PENDANT
Providing functional, softly diffused, ambient interior lighting, La Baguette Ring Pendant is a classic luminaire that melds Art Deco–inspired solid metal torchere lighting forms with rich, handcrafted materials. Various shades and finishes are offered, and the fixture can take incandescent or compact fluorescent lamps. • baldinger.com • CIRCLE 88

BOYD LIGHTING
CIRCOLO SCONCE
One in a family of indoor/outdoor ADA-compliant sconces, pendants, and ceiling fixtures, the Circolo Sconce is made from stainless steel and has a white pearl shade to conceal incandescent or compact fluorescent lamps. Its organic yet geometric perforated metal diffuser is offered in five finishes. • boydlighting.com • CIRCLE 90

ENERGIE POLARON
The result of the company's collaboration with Sieger Design and German lighting manufacturer Trilux, the Polaron family of luminaires was inspired by the combination of room and light in the Roman Pantheon. Each fixture's circular body—whether in recessed, semirecessed, surface-mounted, or pendant form—shapes the emitted light, illuminating in all directions. • energielighting.com • CIRCLE 89

GARDCO LIGHTING ORGANICS
Wall-mounted luminaires utilizing compact fluorescent, high intensity discharge, or LED sources to create graceful, large-scale architectural accents. Organics come in seven plane choices, more than 300 colors, and with a variety of distributions and lenses. LED fixtures can be specified with static white, static color, or color-changing technology, and all feature rugged housings for outdoor applications. • stikelightings.com • CIRCLE 91
MEYDA LIGHTING
WHISPERING PINES CHANDEL-AIR
A customizable handcrafted luminaire with an integrated fan, the 44-inch-diameter Whispering Pines Chandel-Air (Model 108443) features an amber mica shade that has been transformed into a decorative yet functional fan casement with a pine cone and pine branch design. It can be adjusted to accommodate flat or vaulted ceilings of any pitch or height and operates with a two-circuit remote control with three-speed fan control and dimming capabilities.

STUDIO ITALIA DESIGN
ANDREI
Andrei represents the company's foray into DecoTech: the merging of cutting-edge modern design with a focus on light management, indirect and direct lighting combinations, and combined lamping, with the goal of illuminating a space more efficiently. Designed by Brian Rasmussen, the polished stainless steel fixture features pleated mirrors that give off a fragmented reflection of the viewer. It is available as a pendant, a sconce, and a floor lamp.

JGOODDESIGN
HOURGLASS CHANDELIER
Eco-friendly and handmade in New York City, the Hourglass Chandelier takes its inspiration from the human form. Available in varying heights, diameters, colors, and finishes, it is made of aluminum, brass, and partially recycled glass, all of which can be recycled. Lamping options include incandescent, LED, or fluorescent sources and it comes in colors such as wispy translucent white, Caribbean blue, amber, grayish green, bronze, or dark purple.

FOSCARINI
EMPIRE GRIGIO TRASPARENTE
Originally created in 2007, Empire is now available in transparent gray and called Empire Grigio Trasparente. Measuring approximately 12 1/4 inches wide and 74 1/4 inches tall, the translucent floor lamp casts light both upward and through its methacrylate body to enhance its ethereal effect. Its one 200W halogen lamp can be dimmed.
It's all in the details.

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LAM LIGHTING  CFL SERIES
A collection of decorative, indirect/semi-indirect interior pendants, the CFL Series includes four styles: Saturn (shown), Luna, Tempo, and Traditional. Each uses electronic ballasts and compact fluorescent lamps, is available in three diameters with nine lamping combinations, and comes in three finishes. An inner diffuser eliminates hot spots and provides protection from debris. • lamlighting.com • CIRCLE 98

TARGETTI POULSEN  SNOW
Redefining the concept of the floor lamp with its large yet light and almost invisible form, Snow is both geometric and organic and features a silk-screened pattern of white snowflakes. Made from transparent acrylic, the design emits light in every direction for soft ambient illumination. Measuring almost 14 inches in diameter and just more than 59 inches tall by 31 1/2 inches wide, it contains a 4 1/2-pound counterweight that hangs freely inside the fixture like a large snowball. • targettpoulsen.com • CIRCLE 97

SPI LIGHTING  ADVENT MONET
One in a family of interior sconces, pendants, ceiling mounts, and exterior wall Mounts, Advent Monet provides vibrant supplemental illumination thanks to vivid color gels and glowing edges. Lamped with linear fluorescents or LEDs, it is made from partially recycled aluminum and a recyclable polycarbonate lens, uses an electronic ballast, and can be dimmed. It comes in 37 standard powder coat paints and 18 metal finish options. • spilighting.com • CIRCLE 98

IVALO LIGHTING  SILVUS 30”
An extension of the Silvus modular sconce system, the longer and leaner Silvus 30” indoor/outdoor luminaire was inspired by the optical effects of water and light in the forest. Measuring 30 inches tall by 7 1/2 inches wide and 6 1/4 inches deep, it uses LED technology to allow for static, pulsing, flowing, or color-changing light. When used in a column that includes two or more units and the bottom edge is less than 27 inches off the ground, the system is ADA compliant. • ivalolighting.com • CIRCLE 99
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**products DECORATIVE**

**ARTEMIDE PIRCE**
Fluttering spirals fall from the slim disk opening of Pirce, a suspension lamp designed by Giuseppe Maurizio Scutella. The luminaire, made of aluminum and also available in white, is well suited for hospitality and residential applications. • artemide.com • CIRCLE 100

**DELTA LIGHT PARALLEL**
Parallel has an atypical body—that of a pinched rectangular extrusion. Available as a wall mount and a pendant, the luminaire's distinctive design lends a modern air. Constructed of polycarbonate, it measures approximately 8 1/4 inches by 2 3/8 inches by 16 3/4 inches and takes a triple 18W compact fluorescent lamp. • deltalight.us • CIRCLE 102

**ILEX ARCHITECTURAL LIGHTING**
**HAT BOX ROUND ADA**
Constructed of solid brass with clean lines and a selection of elegant finishes, the Hat Box Round ADA sconce is also offered in a square model as well as full custom sizes. It can accommodate incandescent or fluorescent lamps and comes in finishes including architectural bronze, brushed nickel, and satin brass. Custom lamping and finishes also are available. • iledlight.com • CIRCLE 103

**LUSIVE DÉCOR**
**CELESTE CHANDELIER**
Featuring polished chrome, laser-cut double blades and 1/2-inch machine-carved-and-polished Lucite wings, the Celeste Chandelier measures 6 feet in diameter and 7 feet tall. Each of the six wings is edge lit with high-output fluorescent lamps, and the fixture is equipped with dimmable electronic ballasts. • lusivedecor.com • CIRCLE 105

**STRIINI ART GLASS**
**BABY JELLY FISH LAMP**
A smaller version of the larger, LED-lit Jelly Fish Lamp, the new Baby Jelly Fish Lamp measures 6 inches to 7 inches in diameter and 20 inches long. UL-approved for dry locations, each luminaire is handcrafted and takes a 35W bi-pin halogen lamp. • striniartglass.com • CIRCLE 104
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Circle no. 78 or http://archlighting.com/productinfo
Melt Mee is a dreamlike and sophisticated vision of fluid shapes in which handmade glass is coupled with a surreal and playful “melting” design. The collection of chandeliers consists of four models with 3, 8, 16, or 24 lights, all of which are offered in seven bold colors.

One of the company’s most successful designs now available in golden yellow, Caboche Giallo Oro was inspired by a bracelet. With a ring form, upper and lower satin glass diffusers, and polymethylmethacrylate spheres, it produces a luxurious warmth with its shimmering yet diffused light. Fixtures take a halogen lamp and come in suspension, table (shown), ceiling, wall, and floor versions, some in multiple sizes.

Discover LED innovations from The Global Leader in exterior lighting.
BIRCH AND WILLOW ROOST
Roost is a nature-inspired table lamp made of hand-dyed reed, datu rattan, willow, grapevine, and bittersweet vine. The luminaire is available in three sizes: small (19 inches tall by 9 inches wide); medium (22 inches tall by 12 inches wide); and large (28 inches tall by 15 inches wide). Incandescent bulbs (40W for small, 60W for medium, and 75W for large) are recommended by the company for its luminaires, which are all made to order. birchandwillow.com • CIRCLE 107

DELRAy LIGHTING RED
Inspired by the elegant, tubular shape of a lipstick case, RED can accommodate 35W to 150W ceramic metal halide lamps, two 42W compact fluorescents (that can be dimmed), or high-output 27W LEDs. Its cast/extruded aluminum housing is 24 inches tall and 6 inches in diameter, and has a matte anodized finish that also can be custom powder coated. Glass options are red or opal with a matte opal interior. delraylighting.com • CIRCLE 108

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A wall lamp that provides both direct and indirect lighting. Euralo is made from molded aluminum and available in either aluminum or polished white. Designed by Pio and Tito Toso, the luminaire can accommodate either fluorescent or halogen lamps.

FIRE & WATER CYCLED
A traditional design object reinterpreted with dramatic, unconventional, and green flair, the cycLED chandelier is the company's first LED offering. Made up of a salvaged bicycle wheel and sheets of recycled glass pebbles suspended at alternating heights, it contains MR16-style white or color-changing LEDs mounted on goosenecks aimed through the pebbles. It measures 25 inches in diameter with a height that is built to order.

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JONATHAN BROWNING
JONATHAN BROWNING/KALMAR COLLECTION
Lighting designer Jonathan Browning has partnered with Kalmar, a lighting firm in Vienna, Austria, to adapt, produce, and market designs from J.T. Kalmar's early 20th century archives for today's market. The initial Jonathan Browning/Kalmar Collection consists of 11 sconces, chandeliers, torchères, and pendants in rosewood, bronze, crystal, and other materials. • jbt-kalmar.com • CIRCLE 111

COOPER LIGHTING
SHAPER FABRIQUE SERIES
This new line of commercial and residential fixtures from Shaper, a Cooper Lighting brand, includes large-scale drum and rectangular pendants, ADA wall sconces, and a family of mini-shade pendants available in a variety of shapes. Designed to have minimal or no visible hardware or structural trim, the luminaires come in up to 14 fabrics and colors, and are offered in natural aluminum, chrome, and copper finishes. Each can take compact fluorescent and incandescent lamps. • cooperlighting.com • CIRCLE 112

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DPI LIGHT WRAPS
Created in response to the ever-increasing demand for custom wall pack covers, Light Wraps are steel covers available in three sizes that fit over most standard wall packs. Available with 18 standard, interchangeable aluminum faceplate styles in a variety of colors, they can be customized with laser-cut designs and backlit through colored acrylic. An optional dark sky kit is offered to provide full cutoff and shielding. • light-wrap.com • CIRCLE 113

CHRISTOPHER MOULDER
ARABESQUE
Blurring the distinction between positive form and negative space, the sculptural Arabesque pendant, with its ovoid cutouts, creates shadow patterns on the surface below. Made up of a 22-inch-by-2½-inch steel tube, it takes a dimmable 50W MR16 lamp, and is finished with catalyzed acrylic enamel in torch red, white, or silver metallic. • christophermoulder.com • CIRCLE 114

DESIGN HOUSE STOCKHOLM
CORNER LAMP
Designed by Roberto Cárdenas specifically to fit into dark corners, the Corner Lamp makes intelligent use of otherwise wasted space. Part of the company's original lighting collection, it features minimalist elegance and Scandinavian flair. UL-listed, it stands 66 inches tall and is made up of a steel pole and a pergament plastic shade. • designhousestockholm.com • CIRCLE 115

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SISTEMALUX
LINEAR SYSTEM
Offered in three configurations—linear wall, linear pendant, and linear pendant with track—the Linear System can be combined with the company's projectors for applications such as museum and office lighting. All fixtures can be lamped with T5 fluorescents, as well as LEDs with both 3000K and 4000K color temperatures. sistemalux.com • CIRCLE 117

MARK ARCHITECTURAL LIGHTING
DATUM
With fixtures as shallow as 2 3/8 inches, Datum is ideal for situations where plenum space is restricted. Made from die-formed, 20-gauge cold-rolled steel, this recessed fixture is available in three widths: 6 inches, 1 foot, and 2 feet. Each takes T5 or T5HO lamps, has a luminaire efficiency as high as 84.5 percent, is finished in a matte white enamel, and contains a translucent acrylic lens. Both rounded and rectangular reflectors are offered. marklighting.com • CIRCLE 118

VISTA LIGHTING
ED/CC LIGHT
A high-intensity recessed luminaire for critical care units and their patients, the ED/CC Light provides illumination for patient examinations, reading, and ambient lighting. Constructed of 20-gauge cold-rolled steel with an antimicrobial coating technology to inhibit the growth and spread of bacteria, it takes six or seven 55W linear fluorescents and features dual swing-down/tilt-out perforated metal shields. vistalighting.com • CIRCLE 119

COLUMBIA LIGHTING
E•POC
Offered with T5 or T8 lamps, the E•Poc full distribution luminaire combines numerous lamp/ballast/lens variations and control options all built into a stylish linear design. It is compatible with control systems—including full dimming, step dimming, occupancy sensors, and daylight harvesting sensors—and, with its small energy footprint, complies with stringent energy codes. It also has a hinged optical system for easy access. columbialighting.com • CIRCLE 120

B-K LIGHTING
MINI ILUME COLLECTION
Suitable for both interior and exterior applications, the Mini Ilume Collection has a unibody design that measures just 2 3/8 inches long. Fixtures are offered in three installation profiles—flush, surface, and Invisi—each with a 2-inch-diameter solid aluminum, brass, or stainless steel faceplate, which can have one, two, or four optical openings with or without a center aperture. The luminaires take a single, side-emitting 1W multidirectional LED in red, blue, green, or amber, or a white LED with a color temperature of 3000K or 4000K. bklighting.com • CIRCLE 121
Can a fixture be both futuristic, and classic? It can if it's among the selection of Squares and Rounds offered by Prudential Ltg. For more than 25 years, our Sky Oculus P-3900 Round has fueled the imagination of architects and designers. That purity of shape is echoed in our P-3600 Square. So whether you require surface- or pendant-mount, large scale or small, let us take you beyond the expected, with shapes that go back to basics. See prulite.com for more ways we can help you create a timeless design solution.
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KREON DOLMA
A recessed wall and ceiling fixture made from anodized aluminum. Dolma can be used indoors and out, and is available in custom lengths. Powder-coated in a silver-gray finish, it can accommodate a variety of lamp configurations, including a high-pressure discharge option, and is offered in 80- and 145-mm widths. A slightly patinated black zinc cover is available for outdoor fixtures. • kreon.com • CIRCLE 123

LEDALITE PIQUE
Using MesocOptics to deliver highly efficient, glare-free illumination, Pique can be combined with integrated daylight sensors as well as the company’s new Airwave wireless control technology. Offered in four recessed, three surface-mounted, and two 20-inch-wide sizes (to accommodate 5-foot-by-5-foot ceiling grids), the contemporary fixtures can take T5, T5H0, T8, and compact fluorescent sources. • ledalite.com • CIRCLE 122

PEERLESS LIGHTING CONTRAIL
A modular system that allows continuous runs of indirect lighting to deliver glare-free illumination. Contrail uses GrateOptic technology for optimal visual comfort. Offered in 4-, 8-, and 12-foot lengths, each curved pendant fixture can accommodate T8 or T5H0 lamps, is made from 20-gauge prepainted steel, contains a highly specular aluminum reflector with a minimum 98 percent reflectance, and has an extruded opal acrylic lens. • peerless-lighting.com • CIRCLE 124

ELLIPTIPAR
30|30 STACKLIGHT STYLE 3037
Using a 28W T5 lamp, the 30|30 Stacklight Style 3037 fixture is ideal for library stack lighting as it drives light to the bottom shelves. (The 30|30 stands for 30-plus footcandles vertical at 30 inches.) A recessed luminaire that measures 7½ inches wide, it is compatible with most lay-in grid ceilings with T-bar supports 24 or 48 inches on center, has a semispecular parabolic cross-baffle with 25-degree shielding, and comes with a white or black trim frame. • elliptipar.com • CIRCLE 125
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Designed with no visible hardware and toolless access for easy T5 fluorescent re-lamping, Neo is available in 3- and 4-foot nominal lengths in surface- and pendant-mount configurations. It is made up of a polished aluminum frame with flush opal lenses on three sides for comfortable ambient lighting, and a microprismatic diffuser lens on the bottom for controlled, low-brightness illumination. • selux.com • CIRCLE 126

ÉNERGIE
TOOL
Adding to its popular Tool line of pendant and surface-mounted luminaires (designed by Swiss lighting manufacturer Regent), Énergie introduces Tool T8 in 2-, 3-, and 4-foot lengths, and Tool T5, a smaller-scale fixture (shown). Simple and minimal, the family is offered in square and circle forms with a variety of reflectors for light distribution diversity. • energielighting.com • CIRCLE 127

New For Old
With an integral transformer built into the base, this Hunza Retro Pillar Lite is a stylish way of replacing an old 120 volt outdoor wall fixture with the latest stainless steel look. Hunza outdoor luminaires are engineered in New Zealand to last a lifetime. Contact us now for more information. Circle no. 75 or http://archlighting.com/productinfo

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COOPER LIGHTING
AMETRIX ARROWLINEAR SERIES
Available in 2-, 3-, 4-, 6-, 8-, and 12-foot lengths, the sleek Ametrix Arrowlinear Series features fluorescent lamps, a sophisticated asymmetric optical design, and 180-degree adjustment with the company's PontGrab2 Aiming System, which includes indicator marks of 10-degree increments on the endcaps. Fixtures can be mounted individually or in continuous fixture rows in any horizontal orientation, and dimming options offer additional energy savings. • cooperlighting.com • CIRCLE 128

FONTANAARTE SONMI
Sonmi, which can take either three 85W 2G11 fluorescent bulbs or three 200W R7 halogen lamps, is made up of a white metal mounting, a tempered glass disc, and a blown-glass diffuser. The glass components can be mixed for red/white, white/white, red/white, or white/red combinations. The disc reflects light upward while the diffuser directs light downward. • fontanaarte.it • CIRCLE 129

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WATTSTOPPER/LEGRAND
LS-102 DAYLIGHTING CONTROLLER
The company's next generation of daylighting controllers, the LS-102 provides closed loop, single zone, on/off switching of lighting in response to daylight contributions. Thanks to continuous and automatic self-calibrating, the controller eliminates the need for repeated manual calibrations to capture changing light levels as room reflectance levels vary. It also can be paired with a low-voltage wall switch.
• wattstopper.com • CIRCLE 130

SCHNEIDER ELECTRIC
SQUARE D CLIPSAL LIGHT-LEVEL SENSOR
The latest addition to the Clipsal lighting control line from Square D, a Schneider Electric brand, the Light-Level Sensor measures ambient light levels and automatically issues on, off, or ramp commands over a C-Bus network. The sensor detects daylight levels and automatically adjusts the output level of electric lighting for increased energy savings. Low-profile and wall-mounted, the unit can control relays, dimmers, or remotely operated circuit breakers.
• schneider-electric.us • CIRCLE 131

LUTRON
SKYLIGHT SHADE
Combining Sivola QED (Quiet Electronic Drive) technology with a new tension system, the Skylight Shade uses Lutron's ultrquiet, precision-controlled Electronic Drive Unit and offers programmable stop points. Available with white or anodized aluminum frames and a variety of high-performance fabrics, it features one-touch control via keypad or infrared remote and has inside, recessed, and outside mounting options.
• lutron.com • CIRCLE 132
**LUCIFER LIGHTING**

**GYRO DL72Z DOWNLIGHT**

This recessed downlight contains exposed circular aluminum planes that interlock in two axes for manual configuration and adjustment. Measuring just over 1\(\frac{1}{4}\) inches wide (snooted), or approximately 1\(\frac{1}{2}\) inches wide (non-snooted), each fixture can take halogen, ceramic metal halide, compact fluorescent, and LED sources, and be fitted with up to three accessories.

[luciferlighting.com](http://luciferlighting.com) • CIRCLE 133

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**3 STYLE ARCHITECTURAL LIGHTING**

**NAOS SERIES**

Measuring 3\(\frac{1}{2}\) inches in height, with a system power consumption of only 6.5W (with a 3.6W LED) or 8W (with a 7.2W LED), the NAOS Series of recessed downlights has a CRI of 70 or 85, color temperatures of 3000K, 3500K, and 4100K, and three reflector finish options. Various optics are available, including 20-degree, 40-degree, and regressed nonconductive shower trims.

[3stylelighting.com](http://3stylelighting.com) • CIRCLE 136

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**TECH LIGHTING**

**ELEMENT 6”**

The latest version of the company’s architectural recessed downlight system is Element 6”, which is well suited for residential, commercial, retail, and hospitality applications. Offered as open or regressed lens, round or square, or flanged or flangeless, Element 6” has a variety of lamping options including incandescent, compact fluorescent, and ceramic metal halide. Trims are constructed of die-cast aluminum and are completely seamless at the corners.

[techlighting.com](http://techlighting.com) • CIRCLE 135

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**STARFIRE LIGHTING**

**VERSALUX HYBRID**

Providing discrete, ceiling-integrated illumination in a single, compact, low-profile housing, the VersaLux Hybrid can accommodate single or multiple linear fluorescent lamp configurations, with or without adjustable MR16s (or other auxiliary accent lights) that allow for wall wash, art wash, and accenting effects. Thanks to a front-loading design, three accessories can be used simultaneously.

[starfirelighting.com](http://starfirelighting.com) • CIRCLE 134

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**PRESCOLITE**

**LITEFRAME LF6CFH**

Now with watts-per-square-foot optics, the LiteFrame line of downlights features more lumens per watt. Thanks to its new optical design, it also offers more light than the typical 45-degree cutoff. The LF6CFH model, a 6-inch horizontally lamped compact fluorescent open fixture, is ideal for a variety of low- to medium-height applications and can accommodate downlight, wallwash downlight, and lensed downlight reflectors.

[prescolite.com](http://prescolite.com) • CIRCLE 137
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GOTHAM LIGHTING
ECOS
A family of high-output LED downlights, ECOS is designed to deliver lumens comparable to traditional light sources. Round and square trims are available in 4- and 6-inch apertures. The shallow-profile fixtures have a nominal lumen output of 1,000 (for the 4-inch model using a 30W LED) and 1,400 (for the 6-inch model using a 38W LED). • gothamlighting.com • CIRCLE 138

NO. 8 LIGHTING
CERAMIC METAL HALIDE
Expanding its line of downlights, No. 8 Lighting has added a ceramic metal halide option that uses a 20W MR16 lamp. Equipped with a toolless, fully adjustable gear-driven optical system that features hot-aiming capabilities, each fixture allows for interchangeable lamp modules and comes in an array of round and square trim options with small (1 1/4 inches) and large (2 1/4 inches) apertures. • 8lighting.com • CIRCLE 139

LIGHTOLIER
CALCULITE SOLID-STATE DOWNLIGHT
Offered in 4-inch round and square models, the dimmable Calculite Solid-State Downlight uses remote phosphor technology to redirect back-reflected light out of the luminaire. Delivering a 50-degree physical and reflected cutoff and consuming only 20W, it can achieve 1,000 lumens at 3000K or 1,100 lumens at 4000K for task-oriented applications. • lightolier.com • CIRCLE 140

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products EMERGENCY / EXIT

FULHAM FIREHORSE
A new family of fluorescent emergency lighting products. FireHorse's standard features include dual voltage, a push-to-test switch, and an LED charge indicator. The fixtures are available in 22 standard models with multiple options, including battery backup, self-test diagnostic, remote capability and a choice of case, panel, letter, and face color.

LITHONIA LIGHTING
SOLO OVAL
Designed with architectural settings in mind, the Solo Oval exit sign features an elegant oval shape with a slim profile. It is made up of a die-cast aluminum mounting and an optics-grade acrylic panel that contains high-performance white LEDs. Features include self-diagnostics, a premium battery, and an optional fire alarm flashing interface. The mounting stem is available in dark bronze, brushed nickel, black, white, and custom finishes.

DUAL-LITE
PG SERIES
Combining an LED light engine with precision-engineered optics, the PG Series provides several focused and wide area egress illumination patterns. Made of die-cast aluminum, the housing contains four high-output LEDs, an electro-polished aluminum reflector with 95 percent minimum reflectivity, and an acrylic lens. Applicable for outdoor installations, the fixture comes in white, silver, or dark bronze.

PATHWAY LIGHTING FINE-LINK
Fine-Line is an architectural-grade, superslim, die-cast aluminum exit sign that measures only 3/8 inches thick. Boasting an energy-efficient LED light source and full and even illumination, it features universal mounting, is available with red or green LED operation, and comes in a satin-brushed aluminum finish with a premium nickel cadmium battery.

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**WIDE-LITE**

**VIZORLED**
Suited for parking garages and other low-bay installations, the VizorLED ceiling-mounted luminaire provides glare-free, direct downward ambient illumination in any environment. Its high-impact canopy top and acrylic lens contain a faceted, 94-percent-reflective, indirect optical system with concealed LEDs to increase visual comfort and safety. It comes in a 24-inch length with 30 or 60 LEDs and a 31-inch length with 50 or 100 LEDs. • wide-lite.com • CIRCLE 146

**DESIGN HOUSE STOCKHOLM**

**WORK LAMP**
The industrial-inspired Work Lamp, crafted by Form Us With Love, a Swedish design trio, displays its blue-collar roots through tough steel wiring, which in this incarnation can be chrome plated or gold tinted. Each luminaire measures 6 inches in diameter, includes a 60W lamp, and can be dimmed. • designhousestockholm.com • CIRCLE 147

**BARTCO LIGHTING**

**BDS550**
A low-profile linear T5 fluorescent diagonal stagger fixture, the BDS550 provides consistent runs of illumination thanks to its 6-inch overlapping lamp arrangement. Available for standard and high-output T5 lamps, it measures 2-7/8 inches wide by 2-7/16 inches tall, accepts standard electrical fittings, and can use a dimming ballast as well as a variety of battery backup options. • bartcolighting.com • CIRCLE 148

**TCP**

**ECOVATIONS LED DOCK LIGHT**
An energy-efficient alternative to halogen and incandescent fixtures used in shipping and receiving loading docks, the 16W EcoVations LED Dock Light is built to withstand harsh conditions. With a 50,000-hour life span, according to the manufacturer, it is available as a retrofit for existing dock arms or as a package including a dock arm and mounting hardware for new construction or replacements. • tcp.com • CIRCLE 149

**SPORTLITE**

**TDX**
Using eight 70W lamps, the TDX architectural-grade compact fluorescent high-bay luminaire can generate 41,000 lumens, making it ideal for a variety of commercial applications. It has a lamp life of 20,000 hours, is available with a clear polycarbonate, aluminum, or a pearlescent dome, and can also be used with 120W, 85W, 60W, 57W, 42W, 32W, and 26W lamps with two-, three-, or four-level switching. • sportlite.com • CIRCLE 150
The all-new SS4 has set the standard for solid state lighting for commercial applications. By incorporating excellent light control, high lumen output and energy savings, the SS4 is a true specification-grade LED recessed luminaire that delivers 700 lumens at only 14 watts.

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ALUMENS
8-HP SERIES
High-bay fixtures for high-performance ambient lighting in detention centers, jails, and prisons, the 8-HP Series uses energy-saving, low-mercury T5 or T5HO linear fluorescents. Constructed from heavy-duty, cold-rolled galvanized or stainless steel, each luminaire can take two, three, or four lamps, which are shielded by high-impact-resistant polycarbonate or tempered glass lenses. Emergency battery-pack backup power and dimming ballasts are offered.

AFFINEON LIGHTING
BAY-1500-W LED INDUSTRIAL SERIES
The Bay-1500-W LED Industrial Series of low-, medium-, and high-bay fixtures was designed for retail, commercial, and warehouse interiors. Measuring 24 inches in diameter and consuming 81W of power from 72 high-brightness LEDs—in cool, daylight, or warm white—each model features a clear prismatic acrylic reflector, a glass trim ring, and decorative chrome hanging bars, and has beam angles of 10, 40, 90, and 120 degrees.

METALUX
SSF AND SNF FLIP-UP STRIP SERIES
Available in 2-, 3-, 4-, and 8-foot lengths with one or two T5, T8, or T12 lamps, the SSF series of wide strip luminaires and the SNF series of narrow strip luminaires were designed with an easy-to-use flip-up socket to reduce installation time and allow for various mounting methods. The multipurpose fixtures come with optional symmetrical and asymmetrical reflectors to increase performance and application versatility.

ALBEO TECHNOLOGIES
SECURITYLED
A full line of general illumination light fixtures suited for high-abuse commercial and industrial facilities. SecurityLED is built with the company’s white-LED TEMP/PR thermal technology. Each luminaire has a heavy-gauge steel housing, thick polycarbonate lenses, stainless-steel tamper-proof fasteners, and a polyester powder-coated finish.

MORLITE
MINI INDUCTION LAMP SERIES
A line of low-profile, surface-mounted ceiling luminaires for use in low- to moderate-abuse environments, the Mini Induction Lamp Series features sturdy, 18-gauge steel architectural housings offered in 1-foot-by-1-foot, 1-foot-by-2-foot, 2-foot-by-2-foot, and 2-foot-by-4-foot sizes. Each fixture takes one 100W or 150W magnetic induction lamp and can accommodate a clear tempered glass or prismatic polycarbonate lens.
UN Global Temperature Data Shows Direct Link to Advances in Lighting!

New York - Recent U.N. global temperature data shows a remarkable correlation to historic events in the lighting industry. The U.N.'s infamous "Hockey Stick" Graph shows that despite a gradual overall decline in temperatures over the proceeding millennium, even when including the period of the Industrial Revolution, the adoption of incandescent and fluorescent lighting corresponds with a sudden rapid increase in world wide temperatures.

Some experts argue that the 94% infrared content of incandescent lamps and the 70% IR of fluorescent lights are responsible for much more than fading, photochemical and photomechanical damage. While there are a number of factors involved, the fact remains that the increase in global temperatures almost exactly matches the growth of conventional lighting. It is also true that increases in global temperatures stopped and then reversed at about the same time that NoUVIR Research began reducing energy use with hugely efficient, UV and IR free, fiber optic lighting.

The president says, 'Never waste a crisis.' Perhaps climate change and financial crisis will finally make us look at the efficiency of our lighting.”

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PHILIPS T8 U-BENT LAMPS
Suitable for 2-foot-by-2-foot fixtures in a range of retail, office, school, and hospital settings, the 29W and 31W T8 U-bent lamps each contain only 3 mg of mercury. Available in 3000K, 3500K, and 4100K color temperatures, they feature a high lumen maintenance of 95 percent and a color rendering index of 85. Measuring 1 1/8 inches wide, they also deliver 30,000 hours of rated average life at 12 hours per start and 24,000 hours of rated average life at 3 hours per start on electronic instant-start ballasts. • philips.com • CIRCLE 156

OSRAM SYLVANIA
METALARC POWERBALL EL ECOLOGIC
A 24W PAR30LN ceramic metal halide lamp with an integrated ballast, the Metalarc Powerball EL Ecoligic contains a spherical arc tube that provides high CRI and excellent red rendering with enhanced R9 for vibrant colors and crisp whites. Offering energy savings, longer life (12,000 hours average rated life), and higher efficiency than a halogen lamp, it has beam angles of 10, 15, 25, and 40 degrees. • www.sylvania.com • CIRCLE 157

LEVITON WIRELESS OCCUPANCY SENSOR
Part of Leviton's integrated architectural lighting and energy management control offerings, the Wireless Occupancy Sensor, with energy-saving benefits and simple installation, is applicable for retrofit projects. Its automatic shut-off time can be adjusted, and an integrated solar cell powers the sensor using ambient light, eliminating the need for batteries. • leviton.com • CIRCLE 239

GARDCO LIGHTING COSMOPOLIS
Combining a new white-light ceramic metal halide lamp and an optimized electronic ballast, the CosmoPoly outdoor lighting system from Gardco, a Philips group brand, maximizes performance, improves visibility, and provides a long life—20,000 hours at 60W and 30,000 hours at 140W—with low power consumption. Its highly visible white light has an initial lumen output of 6,900 lumens at 60W and 18,500 lumens at 140W, resulting in the need for fewer fixtures. • site-lighting.com • CIRCLE 240

CRESTRON IPAC-GL1
A compact, low-cost solution for many lighting and automation applications, the IPAC (Integrated Professional Automation Computer)-GL1 was designed for simple wall-mount installation. Its front panel controls and LCD display deliver a user-friendly interface. Built-in relays, sensor inputs, and Ethernet, Crestnet, and RS-232 ports enable connectivity to numerous devices, controls, and networks. • crestron.com • CIRCLE 159
UNIVERSAL LIGHTING

TECHNOLOGIES

ULTIMS PROGRAM START

New additions to the ULTimS high-efficiency family of ballasts, the ULTimS Program Start models are equipped with technology that allows compatibility with occupancy sensors and other switching applications. Specifically designed to increase fluorescent lamp life by properly heating the lamp filaments during the starting process, the ballasts are available with universal voltage operation, can operate a variety of lamps, and have a low profile for simple installation. • unvlt.com • CIRCLE 241

LUTRON ECO-DIM

Now available in the Maestro, Diva, Skylark, Aradni, and Rotary families of dimming products, Eco-dim automatically reduces the amount of power delivered to a lamp by 15 percent, saving energy and extending lamp life with no noticeable difference to the quality of light. It is rated for 600W using incandescent or halogen lamps and all products work in single-pole and three-way applications. • lutron.com • CIRCLE 158

Watt Stopper/Legrand makes it easy to layer energy-saving lighting controls for sustainable designs that exceed code requirements.

Case studies document energy savings of 30% to more than 40% with daylighting controls. Watt Stopper’s daylighting controls include groundbreaking features, such as a sliding setpoint control algorithm, to ensure occupant comfort and simplify, or even eliminate, commissioning.

Watt Stopper/Legrand offers a comprehensive line of occupancy sensors, daylighting controls and scheduled control systems. Let our technical experts and LEED-AP sales force help you find ways to achieve the energy savings and product performance you want for your next project.

For more information, and for energy-efficient lighting control solutions, call 800.879.8585 or visit www.wattstopper.com. Circle no. 26 or http://archlighting.com/productinfo
products **LAMPS/BALLASTS/CONTROLS**

**WATTSTOPPER/LEGRAND**

DIGITAL LIGHTING MANAGEMENT

A suite of plug-together lighting controls with automated self-configuring sensors, switches, and other components. Digital Lighting Management (DLM) has been engineered to meet and exceed energy codes and facilitate sustainable development for both new construction and retrofit projects. Equipped with bilevel control, daylight harvesting, and dimming, the system also features a Push 'n' Learn mode to quickly adjust parameters without the need for tools or a PC and infrared-enabled components for easy modifications.

[www.wattstopper.com](http://www.wattstopper.com)  **CIRCLE 242**

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FULHAM HIGHHORSE
A new family of induction lighting systems. HighHorse's features include ultralong life and excellent color rendering while delivering a higher level of maintained lumens over a longer period of time. Available from 40W to 400W in a variety of configurations, each comes in color temperatures from 4000K to 5000K with other color and dimming options available on request. • fulham.com • CIRCLE 243

GE ULTRAMAX
The UltraMax instant-start, 2-, 3-, 4-, and 6-lamp family of bilevel dimming ballasts features parallel-wired units that can operate standard- or reduced-wattage F32T8 lamps and dim them down to 60 percent. Each low-profile housing is equipped with multivoltage input for line voltages from 108V to 305V and switching can be achieved with the use of simple single-pole switches or other more versatile power-line occupancy sensors. • gelighting.com • CIRCLE 244

ELDOLED LM-DOT CONNECTOR
The newest member of the LM Series, the LM-Dot Connector is an ideal driver for high-power LED lighting applications. DMX and LeeSync-compatible, it can support multiple currents, a 15-bit control resolution, dimming, color control, and bidirectional communication. Measuring approximately 3 1/2 inches wide by just under 2 inches tall, it also features robust thermal management. • eldoled.com • CIRCLE 245

PHILIPS ACTILUME
Made up of a controller, a state-of-the-art multisensor, a remote control, and Philips Advance ballasts, the easy-to-install ActiLume lighting control system delivers maximum visual comfort and energy savings of up to 65 percent to the commercial sector. Designed with a low-profile housing, it can drive up to nine ballasts per system and control up to two zones independently. It also can accommodate DALI-compatible ballasts to further maximize its energy-savings potential. • philips.com • CIRCLE 246

LUTRON HI-LUME
A high-performance, universal voltage driver that provides energy-efficient LED dimming from 100 percent to 1 percent of light output. Hi-lume is compatible with numerous lighting control products as well as three-wire controls. Intended for downlighting, it has a 50,000-hour life span and internal thermal management to safely reduce light and power when operating at excessive temperatures. • lutron.com • CIRCLE 247
The AWW is an adjustable wallwash fixture that can be easily adjusted from below (up to 45 degrees) to give a sharp cutoff at the top of the surface that is to be illuminated. Available with T5 and Biax lamps, it comes in 2- or 4-foot lengths for recessed, surface, or pendant installations; can be spaced at 8-foot centers; and is equipped with high-purity aluminum reflectors for an even, unscaled light.

Lucifer Lighting DL662P
The DL662P recessed round wallwash downlight features an angled lamp holder for even wallwashing. It is constructed of stainless steel with an integral silicone gasket to prevent water intrusion, a sealed, die-cast, wide aperture; and a baffle to minimize aperture glare. It can take a variety of sources from halogen to LEDs, is offered in five finishes, and can accommodate two additional lenses and/or louvers.

Inter-Lux Schmitz Nordic
Measuring just under 1 1/2 inches thick, the minimal Schmitz Nordic stainless steel luminaire is offered in three heights: approximately 12 inches, 20 inches, and 29 1/2 inches. It takes six 1W LEDs and can be fitted with a ribbed or anodized aluminum reflector. The smallest model also can be mounted horizontally at a 45-degree angle.

Con-Tech Lighting 22W Stealth Wall Wash
The 22W Stealth Wall Wash ceramic metal halide track fixture is not only compact and energy efficient, but it delivers high-performance light output, too. The low-profile luminaire produces an even light distribution throughout its beam, and vertical and horizontal cutoff allows precision wallwashing capabilities with 70 percent efficiency and spacing of 4 feet on center.

Zumtobel BASYS
A contemporary downlight family, BASYS provides efficiencies as high as 81 percent, contains a lower parabolic reflector with a 45-degree cutoff, and includes 4- and 6-inch-aperture models that take ceramic metal halide, compact fluorescent, and low-voltage lamp sources. Functions include uniform wallwashing, hot aiming, and pull-down relamping.
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**DREAMSCAPE LIGHTING**

**DLED-5500 HIDDEN COVE LED**
The DLED-5500 Hidden Cove LED linear fixture enables both seamless horizontal illumination and the creation of angular lighting effects. Available in 5- and 10-foot lengths with an extruded aluminum light reveal molding, it contains 20 2700K LEDs per foot and consumes 2.5W per foot. Custom runs are available. dreamscapelighting.com • CIRCLE 179

**HYDREL**

**PARADOX 10**
Designed for uplighting architectural and landscape features, Hydrel's Paradox 10 in-grade luminaire uses a 22W RGB LED array to create DMX-controlled color-changing effects. Made up of a die-cast bronze or stainless steel door and a tempered clear flat borosilicate glass lens, the 10-inch-diameter fixture offers spot, medium flood, wide flood, and linear spread distributions and comes in natural bronze, stainless steel, or stainless steel with a brushed finish. hydrel.com • CIRCLE 190

**JUNO LIGHTING GROUP**

**LED DOWNLIGHT**
Offered in 5- and 6-inch sizes (in new construction and remodel styles) with color temperature options of 3000K, 3500K, and 4100K, the dimmable LED downlight consumes just 14W. A computer-optimized reflector and high-transmission diffusing lens create an optical system that delivers more than 600 lumens, and an integral heat sink allows for the efficient dissipation of heat. junalightinggroup.com • CIRCLE 191

**GE**

**IMMERSION**
Using specially designed optics to focus peak light at the center of the case, Immersion LED display case lighting distributes light more evenly and produces a bright and uniform illuminance level of 1,500 lux. Available in 6-inch increments—from 24 inches to 72 inches—the fixture features multiple point sources of light for increased sparkle, while a close edge-to-edge fit reduces shadows. The luminaire comes in color temperatures of 3500K or 4200K. gelighting.com • CIRCLE 192

**CREE**

**LR24**
A 24-inch-square recessed LED luminaire, the LR24 produces high-quality, energy-efficient, uniform light for suspended-ceiling applications traditionally addressed by linear fluorescents. It delivers a color rendering index of 92 at only 0.5W to 0.75W per square foot, and is dimmable to 5 percent. creelighting.com • CIRCLE 193
FAWOO TECHNOLOGY

LUMIDAS-H

Developed to replace 100W to 150W metal halide lamps, the LumiDas-H 22W dimmable LED PAR42 lamp contains 121 LEDs, provides 65 lumens per watt, and has a life span of 50,000-plus hours, according to the manufacturer. Measuring 6 inches in diameter, it has a 110-degree angle and is offered in color temperatures of 2950K, 3700K, and 5300K. - fawoo.com - CIRCLE 198

OSRAM OPTO SEMICONDUCTORS

ADVANCED POWER TOPLED PLUS

An ultra-white LED that delivers high brightness, low power, and high efficiency in a compact package, the Advanced Power TOPLed Plus uses the company’s ThinGaN chip technology and chip level conversion to produce 75 lumens per watt. Available in whites ranging from 2700K to 6500K, it is fitted with a clear silicone lens for greater light extraction efficiency, consumes 0.5W, and is suited for a variety of indoor and outdoor applications. - osram-os.com - CIRCLE 199

JUNO LIGHTING GROUP

TRAC 12 TL201LEDX SERIES

Ideal for undercabinet and cove lighting, the second-generation Trac 12 TL201LEDX Series modules provide around 30 percent more light than their original counterparts and have a wide 140-degree light distribution. The slim, 1-inch, 0.7W, 1.5W, and 1.6W modules are fully dimmable, offered in 3000K or 4100K color temperatures, and come in a housing with a white or black finish. - juncollightinggroup.com - CIRCLE 195
HYDREL
4640
The 4640 knuckle-mount LED accent luminaire is designed with a rugged die-cast aluminum construction and an offset swivel for balance. Measuring 9 1/2 inches long, it has a crowned tempered-glass lens that diffuses 12W or 22W monochromatic LEDs offered in nine colors, including royal blue, warm white, and cyan. Available with wide flood, medium flood, linear spread, and spot distributions, the fixtures come in numerous (as well as custom) finishes.

EVERBRITE LIGHTING TECHNOLOGIES
MEDLUX XLS II
The MedLux XLS II is a recessed, MRI-safe LED downlight that uses fewer than 60W of energy to deliver 50 footcandles of light at task level. Working with the same dimmer control system as the original XLS, but providing double the light output, it produces no radio frequency interference, which can disrupt patient scans.

CV LIGHTING
MINICOVE LED
Ideal for cove, cabinet, and undercounter applications, the Minicove LED—measuring just 5/8 inches high by 3/4 inches wide—can fit into small spaces and provides evenly distributed, glare- and shadow-free illumination. Modules are available in up to approximately 11 1/2 inches in length, consume fewer than 4W per foot, and have a wide beam spread of 120 degrees.

LEDTRONICS
PAR30-STYLE LED
A direct screw-in replacement for up to 75W PAR30 incandescent or halogen lamps, the 15-degree narrow-beam PAR30-style LED spotlight contains five 3W LEDs that produce 367 lumens—or 2,938 footcandles—of vivid warm-white light. Consuming just 9.5W, it has a color temperature of 3000K and a color rendering index of 80.

MARTIN PROFESSIONAL
LC PLUS SERIES
The LC Plus Series is a modular system of LED video panels with F5 (pixel push protocol) technology that closely integrates light, video, and set design for indoor and outdoor use. Designed for the rental and staging markets, it also is suited for fixed installations such as retail environments and outdoor architecture. The panels are 60 percent transparent, and have a very wide 100-degree horizontal viewing angle.

www.archlighting.com
**LITHONIA LIGHTING  DOM SERIES**

A family of high-performance LED downlights, the DoM Series combines clean aesthetics with a low-glare, uniform light distribution. Available in 6- and 8-inch apertures with delivered lumens ranging from 600 to 1,500, each fixture has a height of 5 3/4 inches, features an integrated heat sink for thermal control, shields the LEDs from direct view, and is equipped with a one-piece die-cast housing with a white interior dome reflector.

lithonialighting.com • CIRCLE 206

**EDGE LIGHTING  LIGHTBAR**

Able to be continuously linked for use under cabinets or mounted in coves. Lightbar is a linear, low-profile, dimmable LED lighting system that produces uniform illumination with a 120-degree beam spread and an adjustable 60-degree tilting range. It comes in 3- or 12-inch lengths (consuming 1.5W or 6W, respectively) and delivers 208 lumens per foot.

edge-lighting.com • CIRCLE 207

**VISA LIGHTING  LIGHT WAND**

An individual 3/8-inch-diameter tube with an illuminated end. Light Wand can be used as a stand-alone fixture or combined to create an artistic effect. Offered in lengths ranging from 3 inches to 6 feet, each can be mounted in straight or curved sections, use a 1W LED, and have an oven-cured, no-VOC acrylic powder coat for painted finishes and an oven-cured, low-VOC clear coat for metal finishes.

visalighting.com • CIRCLE 208

**INTENSE LIGHTING  SS4**

The SS4, a 4-inch architectural recessed LED downlight, has an open reflector and a universal mounting bracket that adjusts for multiple ceiling types. Its light engine, which can be removed to accommodate future solid-state technology, can be accessed from above or below the ceiling and features an input power of 14W, a light output of 700 lumens, a 55-degree beam spread, a CRI of 83, and can be dimmed down to 5 percent.

intenselightning.com • CIRCLE 209

**LIGHTWILD  LIGHTWILD PANEL SERIES**

At approximately 1/4-inch thick, the LightWild Panel Series can unobtrusively backlight translucent surfaces as well as illuminate tight spaces. Available in a variety of sizes—including 1 inch by 6 inches, 6 inches square, and 12 inches square—each provides the choice of 1- or 2-inch on-center LED spacing with options for warm white, cool white, and RGB colors. The panels can be delivered as is for screw mounting or in custom housings, and any combination can be used in a single run as long as the LEDs number fewer than 360.

lightwild.com • CIRCLE 210
OUTWATER PLASTICS INDUSTRIES
LED LOW-VOLTAGE UNDER CABINET PUCK LIGHTS
Made up of 12 cool- or warm-white LEDs with a protective glass diffuser and an all-metal housing, this LED low-voltage under cabinet puck light consumes only 1.25W per fixture and has a rated life of approximately 50,000 hours, according to the manufacturer. Available in polished brass, polished chrome, black, white, brushed chrome, brushed brass, and antique bronze finishes, the fixture can be connected in runs of nine. • outwater.com • CIRCLE 211

HUMANSCALE
DIFFRIENT TECHNOLOGY LIGHT
Based on the company’s Diffrient Work Light II, the Diffrient Technology Light combines versatility, energy efficiency, ergonomics, and engineering precision. It offers one-touch positioning, has a traditional screw-in socket to accommodate compact fluorescent lamps, contains 90 percent recycled and recyclable content, features a cone-shaped shade, and is available in black or silver. Two power outlets and an optional data port are built into its base. • humanscale.com • CIRCLE 213

PRISMA ARCHITECTURAL LIGHTING
WAVE
A series of square or rectangular recessed wall luminaires with painted aluminum trims and diffusers in transparent glass, Wave features a variety of decorative aluminum screens to create different lighting effects and is well suited for use in retail and hospitality applications. The fixtures can be mounted horizontally or vertically, indoors or out, and can emit white or blue light from 8W or 9W LEDs concealed inside. • prisma-pil.com • CIRCLE 212

PABLO LINK
Modernizing the classic task lamp by reducing its complexity and incorporating LEDs, Link has a contemporary aesthetic. Its advanced chip-on-board unit allows for an ultrathin profile, while power is delivered through a conductive aluminum skin, eliminating the need for internal wiring. Consuming only 7.5W with a 15-LED array and offered in soft-touch paint colors, its components are recyclable. The fixture head offers 180-degree movement with precision-designed joints. • paboldesigns.com • CIRCLE 214

VISA LIGHTING
WAVE
A decorative indoor/outdoor ADA-compliant LED tile that can be used as individual units for wayfinding or pieced together to create a dramatic mosaic. Wave is available in 6- and 12-foot squares that can be used independently or together and in a variety of finishes for numerous design configurations. Using single color or RGB LEDs, Wave’s soft glow is obtained in either static or variable colors. A single driver can accommodate multiple units. • visalighting.com • CIRCLE 215
TEMPO INDUSTRIES
RAIL LIGHT
The latest addition to the Sentinel family, Rail Light is a compact, dual-directional, modular
handrail-mounted fixture for step, stair, and ramp applications that uses the company's Binary
LED technology to provide glare-free, low-energy, high-performance illumination. Manufactured
from steel-reinforced PVC plastic, the luminaires can create specific color-mix options and be
securely mounted to existing or newly specified rails. • tempoindustries.com • CIRCLE 218

PRESCOLITE
LITEStep
LiteStep offers three steplights in its collection: ultimate (SLLED1), premium (SLLED2), and
primary (SLLED3), each with a solid-state electronic 350mA constant current PFC class 2B driver,
as well as a high-performing diffusing lens. However, each has a unique faceplate and varies in the
amount of light distribution, wattage consumption (10W or 6W), efficiency, and efficacy it provides.
LED color temperature options include 3500K and 5000K, and housings are offered in various
finishes, such as white, black, and bronze. • prescolite.com • CIRCLE 216

3 STYLE ARCHITECTURAL LIGHTING
ALYA SERIES HALLSTEP LUMINAIRE
A recessed LED wall fixture that consumes less than 5W, the Alya Series HALLSTEP luminaire measures 5 inches in
diameter and can be mounted facing up or down. It has a die-cast aluminum housing and reflector, which, with its diffuse
metallic aluminum coating, provides optimal visual cutoff and uniform light output, and takes a 3.6W LED in 3000K, 3500K, or
4100K color temperatures. • 3stylelighting.com • CIRCLE 217

ADESSO
ARCHER DESK LAMP
The Archer Desk Lamp is a metal architect-style task light with three locking joints that enable
height and shade adjustments. It reaches a maximum height of 22 inches, has a toggle switch
on its base, contains 102 LEDs in its round shade, and is available in shiny black or satin steel
finishes. • adessohome.com • CIRCLE 219
products OUTDOOR/ LANDSCAPE

HUBBELL PERIMALITER III
The Perimaliter III is the latest offering in outdoor perimeter/area lighting for wall-mount refractor applications. The luminaire features a vandal-resistant polycarbonate and borosilicate glass refractor selection, in addition to Pulse-Start metal halide and high-pressure sodium technology. The vertical lamp fixtures—which, according to the manufacturer, outperform horizontal lamp wall packs—reduce hot spots and provide more lateral lumens for better uniformity. hubbell.com • CIRCLE 220

LURALINE LIGHTING GENERA
The Genera line of industrial-style fixtures can be installed in a range of exterior and interior spaces. Offered in wall-mount, surface-mount, and pendant configurations with a choice of incandescent, compact fluorescent, and metal halide lamps, the collection is powered by electronic ballasts and is available in 244 finish options, including the company's palettes of more than 50 colors, as well as custom colors. luraline.com • CIRCLE 221

VIBIA BREAK
Offered in floor and wall models, Break is an artistically designed luminaire collection that could pass as sculpture. The vertical block of the floor version (shown)—offered in two sizes: 32 inches by 7\(\frac{1}{4}\) inches and 17 inches by 7 inches—is divided, leaving a small slit from which a beam of light emerges. The 4\(\frac{1}{4}\)-inch-by-4\(\frac{1}{4}\)-inch wall fixture is a single unit that lets light out through a slit between the fixture and the wall it is mounted on. Available in white lacquer, oxide lacquer, and concrete (wall only), each model contains an acrylic diffuser. vibialight.com • CIRCLE 222

SCHRÉDER LIGHTING USA ALBANY
Offering classic street lighting styles, the Albany series comes in two sizes—Maxi and Midi—with a variety of reflectors and mounting options. Featuring Sealsafe IP66, a hermetically sealed optical unit that prevents dust and water ingress to the IP66 tightness standard while ensuring lifetime protection, the fixtures offer all-aluminum construction for corrosion resistance, tool-free access, and metal halide or high-pressure sodium lamping. schreder.us • CIRCLE 223
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PHILIPS COLOR KINETICS  EW BLAST POWERCORE
An energy-efficient, high-intensity white LED floodlight, the 12½-in.-
ch-inch-wide eW Blast Powercore comes in black or white and features
360-degree rotation and 110-degree tilting. The LEDs are available
in color temperatures of 2700K and 4000K and are located beneath a
21-degree frosted glass lens for a soft-edge beam or a 10-degree clear
lens for extended light projection.

LUMINEX JELISE
Jelise, a flush-mount LED fixture designed for
building perimeters and corridor lighting, comes
in four formats: wall or ceiling mount, each in 3W
or 6W models. With a subtle design that ensures
seamless integration into surrounding architecture,
it is constructed of high-grade aluminum and
contains a UV-stabilized and impact-resistant
polycarbonate lens, making it highly resistant to
vandalism and harsh environmental conditions.

SISTEMALUX LUMENFAÇADE
A façade-lighting luminaire, LumenFaçade can adapt well to any
given architectural geometry, thanks to its swiveling bracket that
allows for a 0- to 180-degree tilt angle. Consuming fewer than
15W per foot, it can graze up to 60 feet high with excellent
illuminance levels and uniformity ratios, and does not
require a remote power supply.

ARCHITECTURAL AREA LIGHTING
PROVIDENCE BOLLARD AND SCONCE
Two new additions to the Providence family of fixtures, the bollard (shown) and the sconce
each embody a transitional style that combines modern lighting performance with aesthetics
in a traditional form. Both luminaires use efficient light sources (such as LED and
compact fluorescent), have a silicone gasket
that seals out contaminants, come in 13
standard colors, and include a steel latch that
opens the lens frame for easy access to the
tlight engine.
LAMPS PLUS NATIONAL GEOGRAPHIC SOLARIS
The National Geographic Solaris 13½-inch hybrid wall light (Model 81993) is part of the Preserve Our Planet program and offers two energy-saving options: a top solar panel that powers four LEDs—automatically illuminated by a light-sensing switch—and a 4W compact fluorescent lamp for when extra light is needed. Measuring 5½ inches wide, it has a black textured finish and a frosted glass diffuser. • lampsplus.com • CIRCLE 229

TEKA ILLUMINATION HIGH LIGHT SERIES
Made up of a 4-inch-diameter path light and a distinctively designed wall light, the High Light Series can accommodate one side-emitting 1W LED in 3000K or 4000K (or in red, blue, green, or amber), or a 16W or 20W G4 Xelogen lamp. The path light was designed for mounting high above mature plantings, while the wall model is a wall-mounted version of the path light. Both can be protected with clear coating to retain the natural beauty of raw copper, brass, and bronze. • tekaiillumination.com • CIRCLE 230

GARDCO LIGHTING CITYSOUL
Blending classic and contemporary style in a unique ellipsoidal form, the CitySoul family of modular street and pedestrian luminaires includes small and medium die-cast housings and offers mast arm and P1 mountings. The fixtures can take a variety of sources, including induction and compact fluorescent, and feature a Type II distribution. Each can be finished in fade- and abrasion-resistant bronze, black, white, natural aluminum, or custom colors. • sitelighting.com • CIRCLE 231

BEGA-US URBAN FURNITURE
A bollard that provides illumination and seating, Urban Furniture is ideal for parks, school, and public spaces. Shielded with a symmetrical output, the two-piece die-cast luminaire takes one 39W ceramic metal halide lamp, contains a hand-blown crystal glass diffuser, has widespread light distribution, and comes in the company's standard colors: black, white, bronze, and silver. Custom colors also are available. • bega-us.com • CIRCLE 232
A’LIGHT AIRE4
A minimalist luminaire with concealed rear mounts, aire4 appears to float in air. Constructed from 60 percent recycled aluminum, it can be vertically or horizontally mounted, takes LED or T5 linear fluorescent sources, and comes in 2-, 3-, 4-, 6-, 8-, 9-, 10-, and 12-foot lengths. Using the company’s proprietary lens configuration, it yields 93 percent light transmission that is “scattered” for a smooth, evenly distributed crystalline-silk appearance. An accenting MR16 dichroic bottom-end lamp provides striking color effects.

DELTA LIGHT LABYRINTH
Made up of four aluminum rods placed in a position similar to a sail arm, Labyrinth creates a unique play of light. Light radiates outward and downward from the fixture’s aluminum body, with glare kept to a minimum. Finished in aluminum or gray-brown structure lacquer, it measures just under 6 inches square, stands approximately 27 1/2 inches tall, and takes a 36W compact fluorescent lamp.

deltalight.com • CIRCLE 234

COOPER LIGHTING LUMARK IMPACT WALL SERIES
Offering nail-cutout performance, versatile forms, emergency-exit options, energy-efficient lamp sources, and dramatic capabilities, the Lumark Impact Wall Series is offered in a variety of shapes including trapezoid and cylinder. Downlighting, inverted mounting, and uplighting are available, as are Type II, Type III, and Type IV optical distributions. Additional options include five housing finishes, frosted glass, window shields, and more.

cooperlighting.com • CIRCLE 225

WE-EF RFL500
A street lighting family for high-intensity discharge lamps and LEDs, RFL500 features a round design and is available in two sizes, approximately 15 1/2 inches in diameter and just under 21 3/4 inches in diameter. Both can be equipped with OLIC (One LED Concept) technology that combines six LEDs and six lenses to make a multilayered module, which requires a single 59W or maximum 103W LED.

we-ef.com • CIRCLE 236
QUALITY LIGHTING

CW 11-13-18

Available in 13- and 17-inch widths with a trapezoid-shaped housing design that mounts flush to any wall, the CW 11-13-18 family of high-performance, full-cutoff fixtures is equipped with precision optics to produce forward-throw, downward illumination for commercial, institutional, and industrial applications. A computer-enhanced, one-piece asymmetric anodized aluminum reflector provides precise beam control. qualitylighting.com • CIRCLE 237

ERCO POWERCAST PROJECTOR

The Powercast projector is available with three lamping options: metal halide (up to 250W), low-voltage halogen (up to 100W), or LEDs (up to 42W in warm or daylight white). Its housing shape provides symmetrical light distribution for narrow spot to wide flood accent lighting in addition to various wide-beam distribution patterns. The fixture has a multilayer powder-coated surface, sturdy mounting bracket, and lockable hinge. erco.com • CIRCLE 238

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Web: www.aal.net/indc.html
Email: info@aal.net
Phone: 714.944.2700

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Bartco Lighting introduces the BDS550 diagonal stagger fixture for linear T5 fluorescent lamps. The diagonal, 6" overflapping lamp arrangement of this specification grade luminaire provides exceptionally consistent runs of illumination in minimally scaled coves and other demanding indirect lighting applications. The BDS550 is fitted with program rapid start universal voltage ballasts and includes baterry backup and dimming ballast options.

info@bartcoighting.com / www.bartcoighting.com

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www.lumenpulse.com

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This outdoor façade lighting luminaire (IP66) can suit several applications on building facades and other high vaulted interiors, as the system easily adapts to any given architectural geometry: Using less than 15 watts per foot, the LUMENFACADE™ can graze up to 60' high with unmatched illumination levels and uniformity ratios. The LUMENFACADE™ does not require a remote power supply. It is a line voltage luminaire with the input ranging from 120V to 277V AC. It is supplied with a swivelling bracket that allows for a 0-180° tilt angle. www.lumenpulse.com
MechoShade Systems
The automated SunDialer™ system by MechoShade Systems is a cost-sensitive, technologically advanced, solar-shading controller, which maximizes daylight harvesting, comfort, and views. It incrementally adjusts the shades based off the sun's position, weather conditions, and the ASHRAE theoretical clear-sky model. SunDialer™ controls up to eight zones, has a built-in IP interface, and integrates with third party control systems. Visit MechoShadeSystems.com

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Precision Architectural Lighting
The new Luminata II series of indirect/direct linear fixtures from Precision Architectural Lighting combines a stylish design with excellent photometric performance. Available in suspended and wall configurations, this extruded aluminum fixture houses T8, T5 or T5HO lamps and offers a variety of optical controls. www.pal-lighting.com

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Schréder Lighting
Integrating a compact design with high photometric performance and style in street lighting, Schréder Lighting USA introduces Hestia luminaires with the world-famous Sealsafe® Optical System, in the US at Lightfair 2009. Crafted of aluminum and glass, the Hestia was designed around a new concept of lighting: the Sealsafe micro-reflector. Less space for the optical compartment signifies more space for the creative freedom granted to the designer, including vast opportunities for new forms and new lighting solutions. www.schréder.com

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Sistemalux Linear
The Linear System is offered in three (3) different configurations: the Linear Wall, Linear Pendant and Linear Pendant with track to be combined with the wide range of Sistemalux projectors for multiple applications such as public spaces, museums and office lighting. All configurations are available in both T5 fluorescent sources and high efficient LED systems in both 3000K and 4000K color temperature options. The LED option makes the Linear System the most energy efficient functional office lighting solution in the market. www.sistemalux.com/

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TERSEN™
The RATIO™ offers a contemporary styled, fully cast housing that supports 48 LED diodes which produce illumination equivalent to a traditional 175w MH lamp. It’s stylistic “finned” design serves both as a heat sink, as well as an architectural statement. Available in both symmetric and asymmetric distributions, the RATIO is meaningful in both form and performance. For additional information, visit www.tersenlighting.com

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lumenpulse

This outdoor façade lighting luminaire (IP66) can suit several applications on building façades and other high vaulted interiors, as the system easily adapts to any given architectural geometry. Using less than 15 watts per foot, the LUMENFAÇADE™ can graze up to 60' high with unmatched luminance levels and uniformity ratios.

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ONE-ON-ONE

Carlo Guglielmi
FORGING CREATIVITY, DESIGN, AND INNOVATION INTO ONE

With a background in economics and finance, Carlo Guglielmi once might have seemed an unlikely successor to architect and designer Gio Ponti as president and CEO of FontanaArte. Since assuming the post in 1979, however, Guglielmi has grown FontanaArte from boutique to bold leader among international lighting manufacturers, without betraying Ponti’s design legacy. His careful stewardship of the company Ponti founded in 1932 and his advocacy of intellectual property have led to prominent roles as a founding member of Altagamma, the trade association of Italian luxury companies, and president of Indicara, an Italian institute that fights counterfeiting. In October 2008, Guglielmi added yet another item to his impressive résumé—president of Cosmit, the company responsible for organizing the Salone Internazionale del Mobile, also the Milan Furniture Fair. 

ELIZABETH DONOFF

What intrigues you about lighting?
The change in light from day to night and the role of shadows. Their ability to be complementary and integrate into a space is unlike any other aspect of lighting.

Do you consider FontanaArte a lighting company or a design company?
To just design for the sake of design is not enough. It’s about coupling innovation with research and elegance. It’s about creating products that are intelligent.

How does FontanaArte maintain its traditions while continuing to grow?
We are always searching for innovation, whether that be new light sources or materials. We are always interested in involving well-known designers, but we are also committed to working with emerging talent—if they are passionate and ready to search for details. Then the result will be a product that is beyond fashion.

How can the lighting industry tackle the global financial crisis?
We need the courage to be ourselves—to create our market. The culture of “making” leads to a culture of “creating.” Without that, there is no foundation for cultivating any kind of a market.

Is there an issue the lighting industry needs to address more directly?
Protecting intellectual property. Counterfeiting represents 9 percent of all gross products worldwide. Theft of intelligence impacts everyone, and not only jeopardizes our economic system but our cultural legacy as well.

What message do you want to convey at this year’s Salone and Euroluce?
To rediscover optimism and a passion for work. You have to ask yourself each day: Have I done something positive and creative?
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KEY FEATURES

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- Heavy duty die cast aluminum construction with no visible heat sink
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- 90° vertical tilt for precision aiming
- Accommodates up to 3 filter mediums
- Single and two circuit track mounting
- Beam angles of 10° and 25° available
- Warm 3000k and Cool 4500k color options
- Painted Platinum, Black and White powder coat finishes
- Junction temperature below rating guidelines
- Potential 50,000 hour LED life
- Available in 9w, 18w and 30w models
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  - sensor requires no wiring
  - front accessible buttons make setup easy
  - lens illuminates during test mode to verify ideal locations

- Saves energy
  Each sensor can save up to $85 per year*
  - sensor turns lights off when room is unoccupied
  - dimming adds additional energy savings

- Superior capability
  - 10-year battery life design
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  - add up to three sensors for maximum coverage
  - can communicate with up to 10 dimmers and switches

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