

A R C H I T E C T U R A L

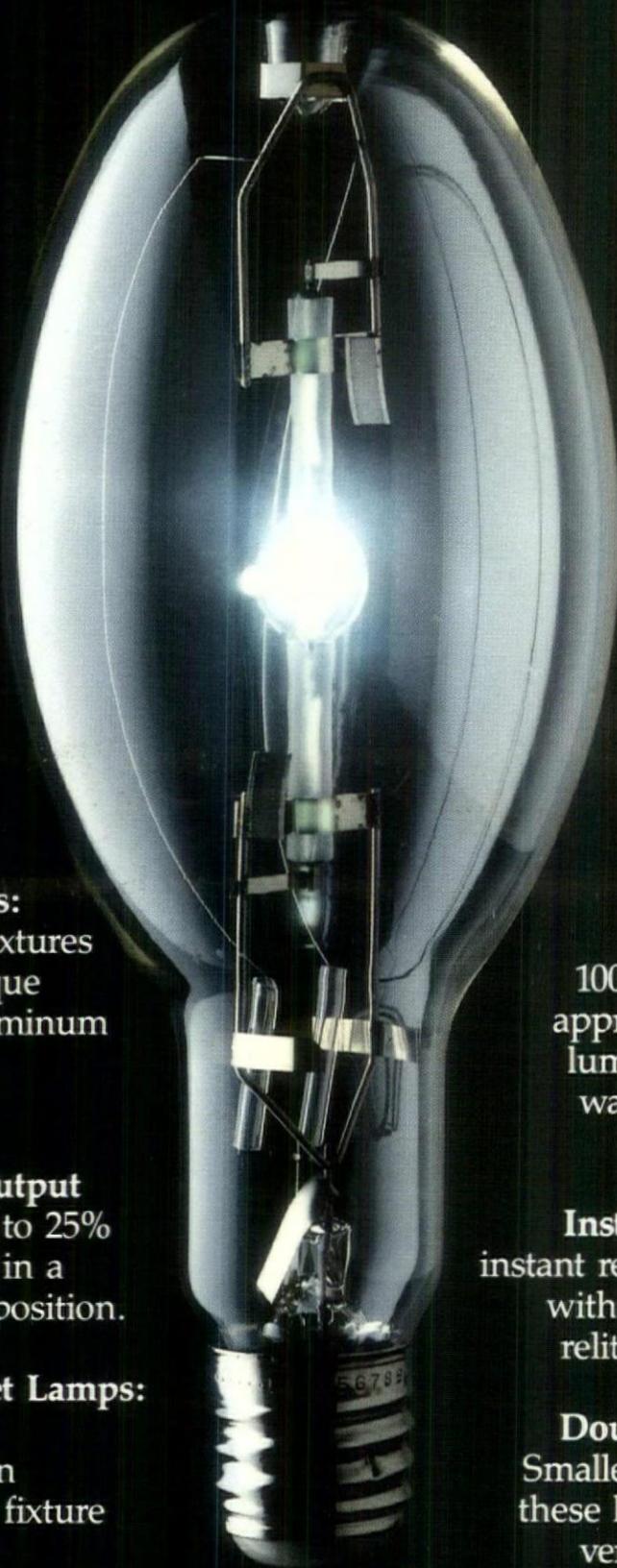
LIGHTING

SHOWCASE

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Circle 2

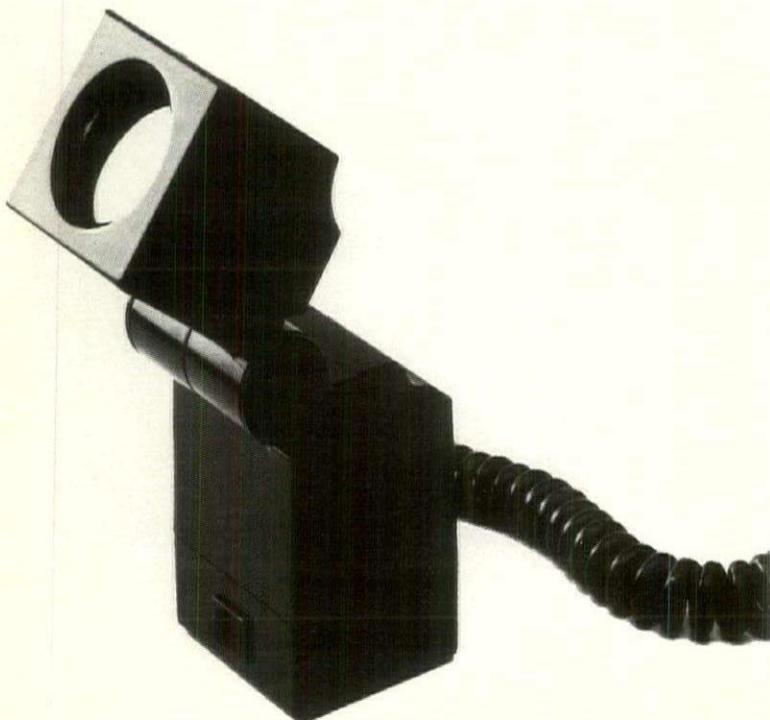


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Circle 190



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Circle 3

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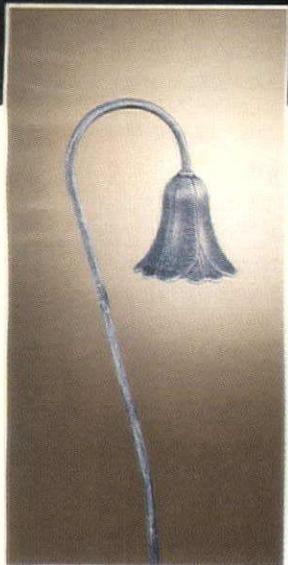
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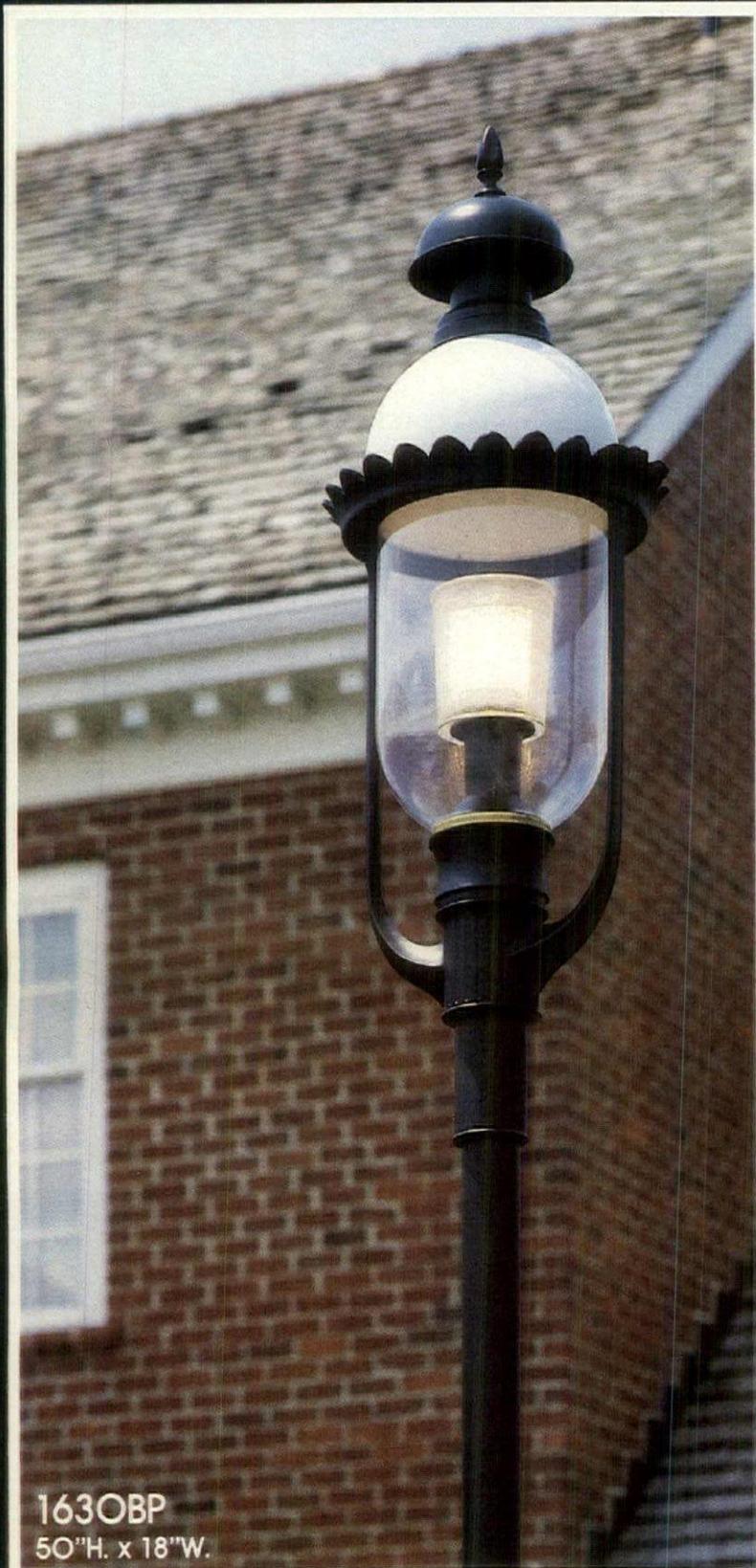
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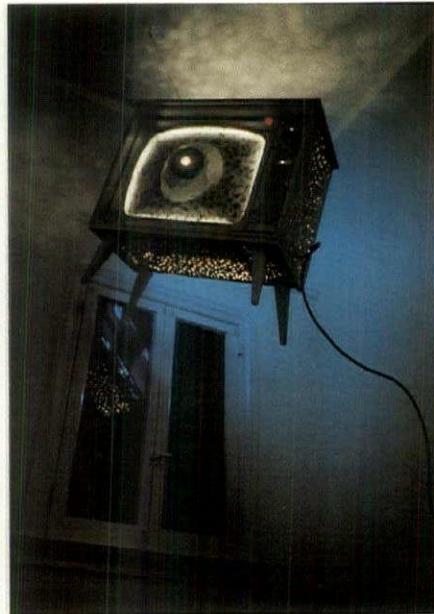
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■ From the Editor



KATHLEEN MEHLING

Los Angeles designers Brian Lane and Bob Dinetz cloned our editorial style so convincingly that I've been unable to muster the courage to ask them if their article is really a send-up of one of the Statements pages we feature in each issue of *Architectural Lighting*.

Their article, "Prime Time TV," features the good design intentions we continually promote. It recognized that the "need to examine lighting ideas is open not only to those with sophisticated equipment or trusting clients," but to any designers who are willing to try out "a few ideas on a small scale and a tight budget." That couldn't be closer to the way we'd say it, if we'd written it ourselves. Or did we? I can't remember.

Their project features a suspended, stripped-out television cabinet, riddled with 893 light-emitting holes, complete with blinking paper-mache eyeball and a new "cord" of bent copper tubing. Indirect light comes from the back of the set, filtered by blue gels. According to the designers, "The benefits of this experiment are an increased awareness of various elements of light as well as a pleasant and entertaining light source."

I, for one, believe that's certainly true. This project meets most of my criteria for deciding whether a project is indeed publishable. It's just more bizarre than most. Which is not a good enough reason to reject it, especially considering the fact that my publisher is extremely anti-elitist, and constantly reminds me that projects need not necessarily be beautiful to be good — if they do a superior job of doing what they are intended to do. This project does. These guys are right out there on the cutting edge with this inspiring design, which challenges the intellectual snobbery that plagues so many design publications.

So, I'd like to publicly thank Mr. Dinetz and Mr. Lane for submitting such a stimulating project. Unfortunately, it does not meet our editorial needs at this time.

Sincerely,
Charles Linn, AIA



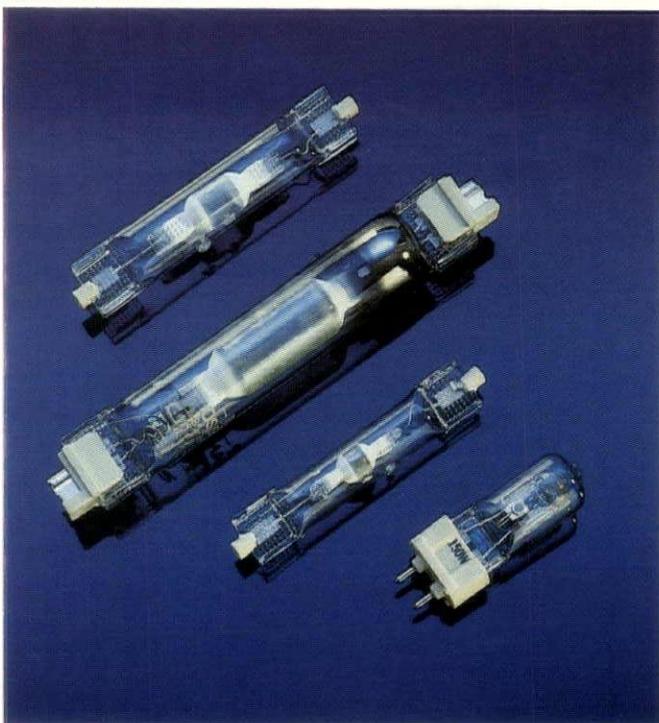
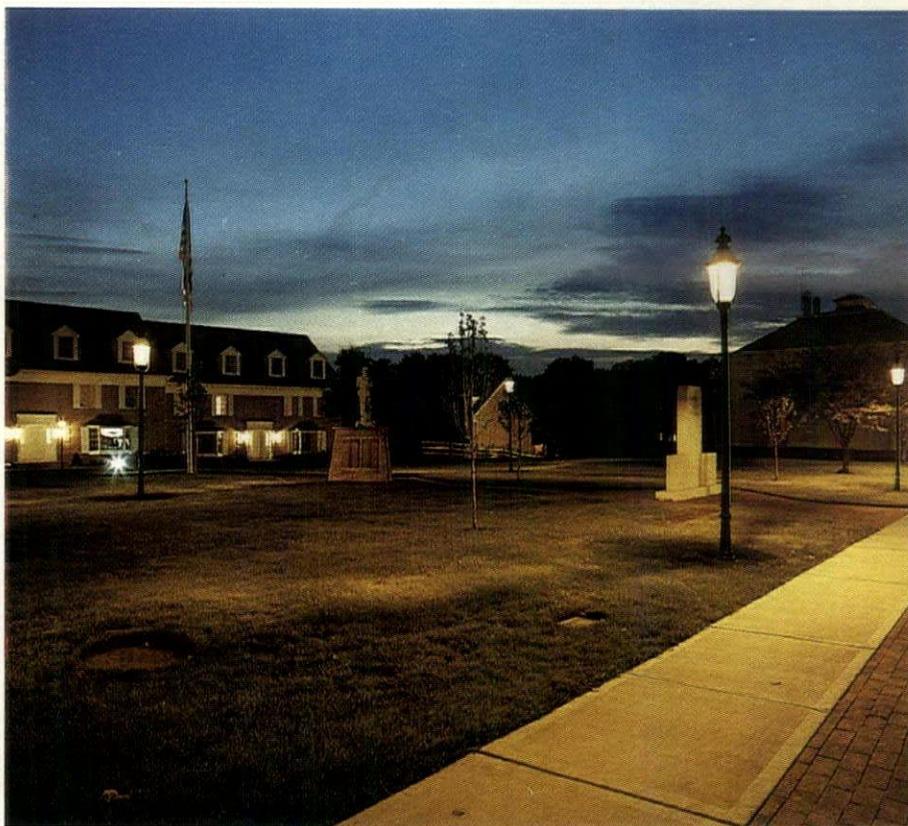
Bart Barlow, Photographer



Willard Traub, Photographer



Lighting Design: Sy Shalom; Architect: Murphy/Jahn; Photography: Steincam/Bakora



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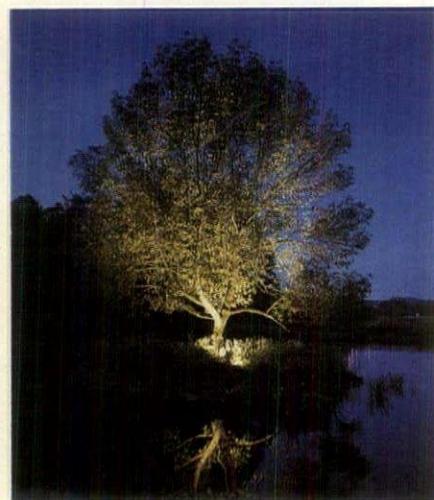
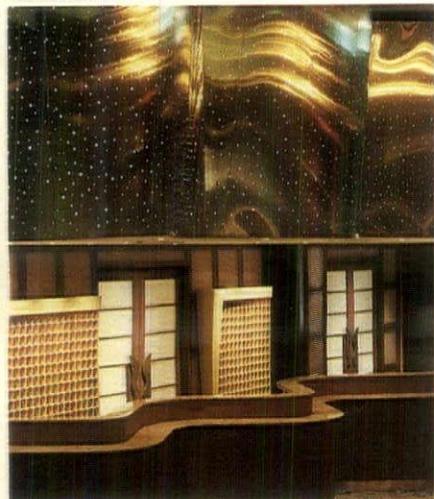
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Circle 6



Track and Accent Lighting

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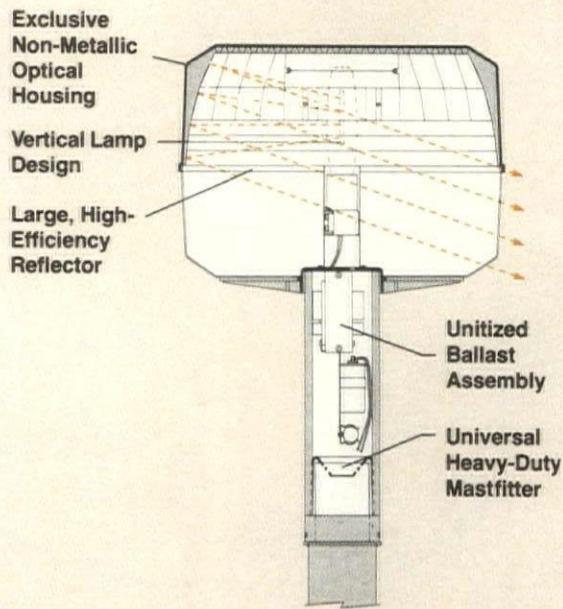
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LOOK AT ENERGY EFFICIENCY IN A NEW LIGHT.



NEW SUPRA-LYTE FROM WIDE-LITE.

Maximize the performance and efficiency of your area lighting designs with the new Supra-Lyte from Wide-Lite. It's superior to typical post-top luminaires because it offers initial and life-cycle cost savings, easy installation and exceptional durability.

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the energy savings can pay for the system within the 3 year Wide-Lite warranty period.

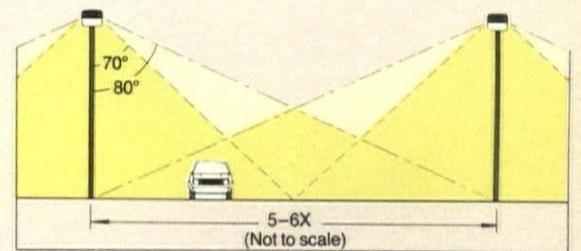
SUPERIOR PERFORMANCE.

Engineered to provide the optimum square Type V light pattern, Supra-Lyte maximizes light at a peak beam angle of 70°. This provides better control of light intensity and distribution with cut-off that minimizes spill light on adjacent property. Areas are illuminated smoothly and uniformly without glare, shadows or hot spots near the poles.

Supra-Lyte offers an excellent spacing-to-mounting height ratio of 5-6 mounting heights. Fewer poles are needed so visual clutter and overall expenses are reduced.

FUNCTIONAL STYLING.

Supra-Lyte features an exclusive lightweight non-metallic housing that is both attractive and exceptionally durable. Plus it has no structural arms or supports to cast shadows or detract from its stylish appearance.



Supra-Lyte provides maximum light output at 68°-70° to illuminate areas between poles spaced up to six mounting heights.

It also features an integral ballast/mastfitter assembly located far away from lamp heat for longer component life, with a full-length access door for easy maintenance. This universal mastfitter assembly can be mounted to round tapered poles and 5" and 6" square poles with 4" O.D. tenons, making Supra-Lyte the perfect choice for new and retrofit projects.

A BRIGHT IDEA.

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By creating the Advantage X fluorescent lamp, the people at Philips Lighting have raised the concept of design to new heights.

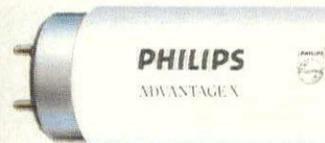
Advantage X not only provides greater flexibility in lighting layout, it enables you to render each new design in a richer light.

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The new Philips Advantage X fluorescent lamp.



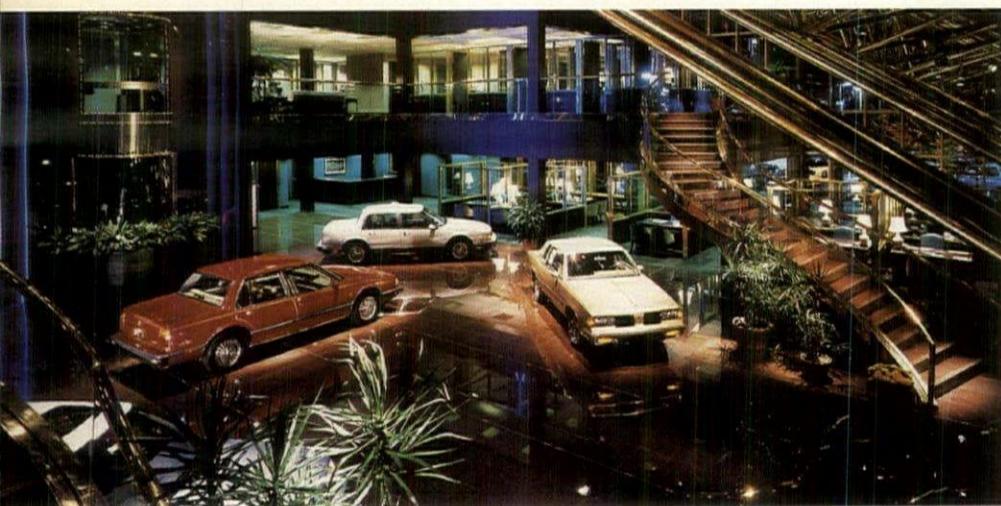
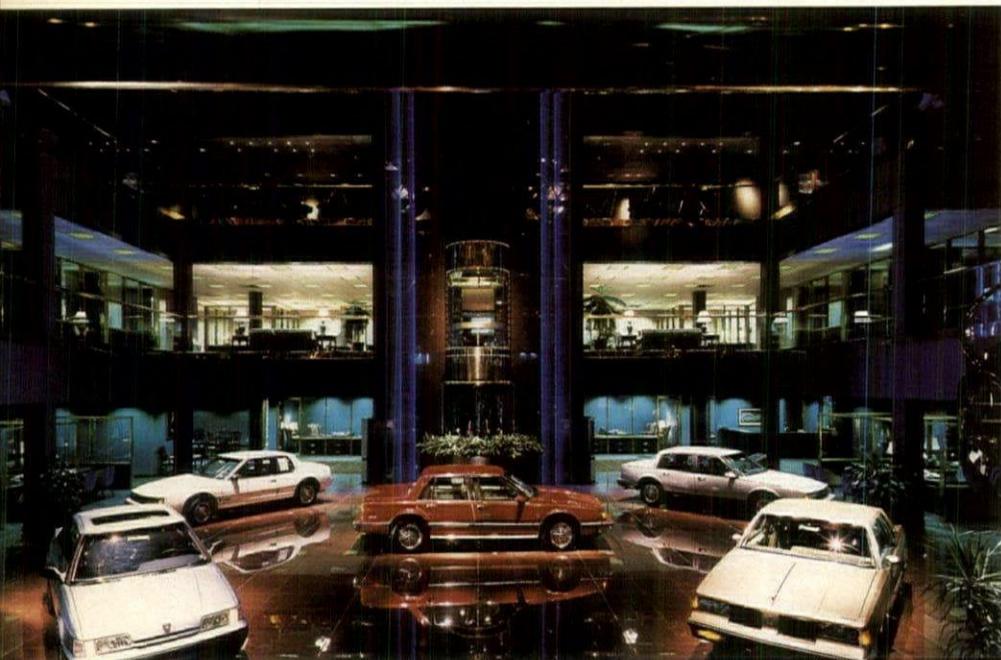
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PHILIPS



TRACK AND ACCENT LIGHTING

Accent lights animate autos in Texas showroom



"Sparkle catches the eye," says lighting designer Craig Roeder. "The more everything sparkles, the better the chance the merchandise will sell." Accent lighting, bouncing off specular glass, polished granite, and brass surfaces gives new automobiles in this showroom so much sparkle the eye can hardly resist them.

"The design dictated that they show only five cars in this showroom," Roeder says. "I wanted to isolate each car with light, so that it would really pop up, which took about eight or ten lights per car. You can also see that the problem of maintaining 150 foot-candles on each car was compounded by the fact that light fixtures had to be clamped onto a space frame that sloped from 0 to 62 feet." To compensate for the various distances between the cars and the fixtures on the space frame, Roeder used five different lamps, ranging from 120-watt 6-volt PAR 64 very narrow spots to 150-watt 120-volt PAR 38 spots.

Roeder also evened out differences in footcandles caused by the differing lamp types and their heights and provided the cars with animation by using an automated preset dimming system. All of these lights are on a cross-fader, which works on a 60-second cycle. "Without the customers really noticing it," says Roeder, "the light on the cars is constantly changing. We've lit their tops and sides so that at times the tops are going darker and the sides lighter; at other times the opposite is slowly happening. It's my feeling that it really creates some excitement and drama — it makes the cars look like they're alive." Other 120-watt PAR 64 very narrow spots within the space frame are focused on the space frame itself, and are also connected to the cross-fader to animate the entire showroom.

Purple neon coves can be seen for miles through glass roof (top). Light tubes between slabs of granite (middle) give showroom floor extra sparkle. PAR lamps in fixtures clamped to space frame isolate autos in islands of light.

Project: Henry Butts Oldsmobile
Location: Dallas, Texas

Architect: J. Roger Crownrich and Associates, Inc.

Interior Designer: Jerry D. Oden Interiors; Don Roth, project manager

Lighting Designer: Craig A. Roeder and Associates, Inc.; Bob Oakes, project manager

Photos: Robt. Ames Cook

The dimming system also extends lamp life dramatically. Even so, Roeder has persuaded his clients to have the showroom completely relamped every two years. The light fixtures themselves are held to the space frame by clamps custom made for this project. Both the clamps and the fixtures were brass-plated to match the space frame.

Roeder had low-voltage tube lighting installed in the joints between slabs of polished Texas granite flooring. "Too often tube lighting is used on 2- or 6- or 12-inch centers. We drew every lamp that went into the floor, and placed them totally at random — some of them are as far apart as 6 or 8 feet. There's another nice thing about their being placed in a random fashion. If one of the lamps burns out in the next 10 years, nobody's going to notice. And, the lights chase. So the floor, being a completely specular surface itself, just sparkles."

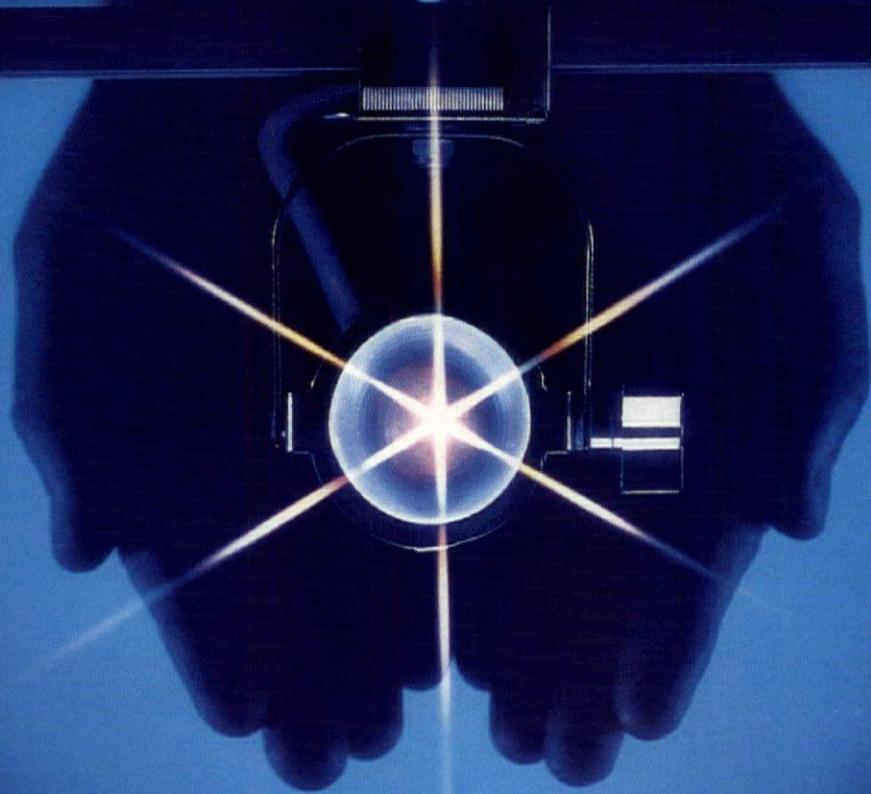
Client identification was one of the reasons for using the purple neon concealed in coves next to the elevator shaft: it can be seen through the glass roof of the showroom up to 10 miles away. "We chose that color because we wanted something that would be really elegant. We put off making a decision on the color until the very last minute, which was fortunate. The purple neon is brand new, and our vendor had just gotten it in from Europe that very week."

Roeder's lighting design also shows that control is the key to energy-efficient incandescent accent lighting — putting the light exactly where it is needed. Many lighting designers consider incandescent lighting to be wasteful in comparison with the efficacy of high intensity discharge sources, but HID sources are not as easy to control, either optically or with dimming systems. The final energy tab for lighting this 25,000-square-foot showroom is 1.2 watts per square foot, competitive with many high intensity discharge schemes. On clear days, electric lighting is unneeded in the daylight atrium.

"We're all looking for a little magic in life," says Roeder. "Anytime a lighting designer can augment that by making something sparkle or glimmer or have a beautiful sheen — whether it's a fabric or diamonds or whatever it is — and we create that magic, I think it helps make the products sell."

—Charles Linn, AIA

For product information, see Manufacturers on page 62. Products for track and accent lighting are displayed on pages 14-17. For lamps and controls, see pages 52-58.



SMALL WONDER.

It's amazing how something so small can cause such a commotion.

Of course, the miniature, low-voltage track Starline Series from Luma, does a full size job. With an Outdoor Series offering the first track lighting for all-weather use. And the Avanti Series, a collection of superbly finished lamp styles suitable for any decor. Plus the Bare Lamp Series, advanced high tech designs.

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The new Starline Series, from Luma.

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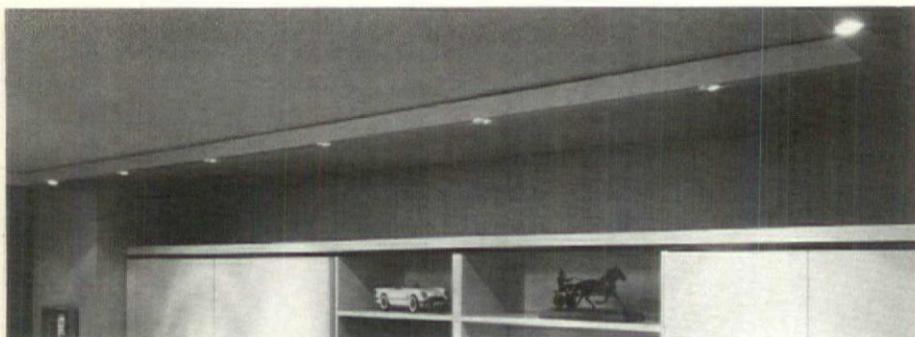
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Circle 9

State-of-the-art lamp sources shown are not included with most fixtures. The information contained herein is subject to change.

SHOWCASE

Track and accent lighting



■ Halogen light channel

Starfire Lighting's Techtrac is a compact 2-inch-square aluminum channel system with MR11 lamps in recessed miniature gimbal housings that allow precise beam adjustment at almost any desired angle. Miniature low-voltage transformers are built into the channel. Standard lamp spacings are 12 and 24 inches on center.

Channels come in standard and custom finishes and in lengths up to 8 feet, with connectors for longer runs or other configurations. Starfire Lighting, Inc., Jersey City, NJ.

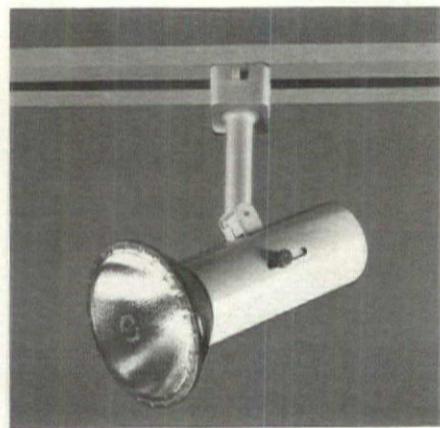
Circle 60



■ Merchandise lighting

Gim Metal Products' model 3521 surface-mounted accent and merchandising light uses single- and double-ended 70-watt metal halide lamps. The rotatable, die-cast unit has a vertical adjustment arc of 110 degrees. The unassembled unit is sold for OEM use with all necessary hardware; barn doors and colored finishes are optional. Gim Metal Products, Carle Place, NY.

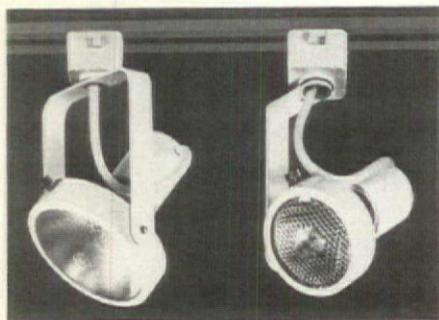
Circle 61



■ Universal lamp holders

Con-Tech Lighting offers HyTech Universal Series lamp holders and shades for track systems. The CTL1600 lamp holders can be used with a lamp alone or with a variety of add-on shades, including a silver bowl reflector and baffled models for R and PAR lamps. The lamp holder includes an adjustable socket for proper seating of various lamps. Con-Tech Lighting, Northbrook, IL.

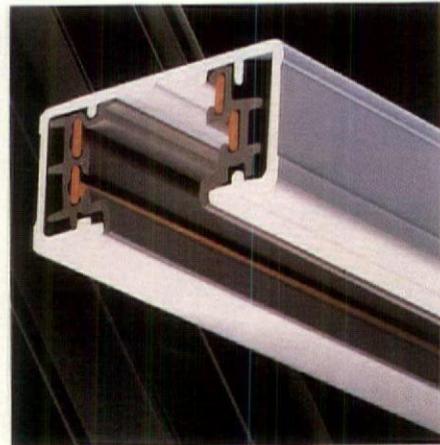
Circle 63



■ Gimbal ring lamp holders

The Gimbal Ring Series of lamp holders from Con-Tech Lighting features an open style for a high-tech look, excellent heat dissipation, and full horizontal and vertical rotation. Line-voltage and low-voltage models are available. Con-Tech Lighting, Northbrook, IL.

Circle 62

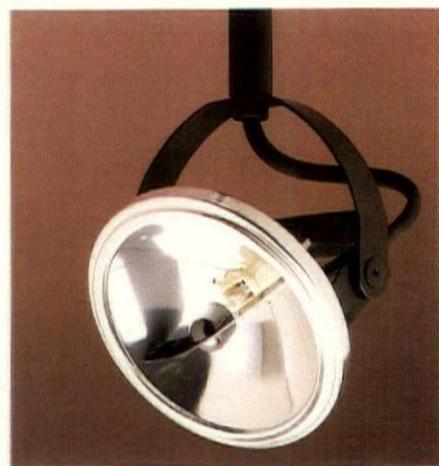
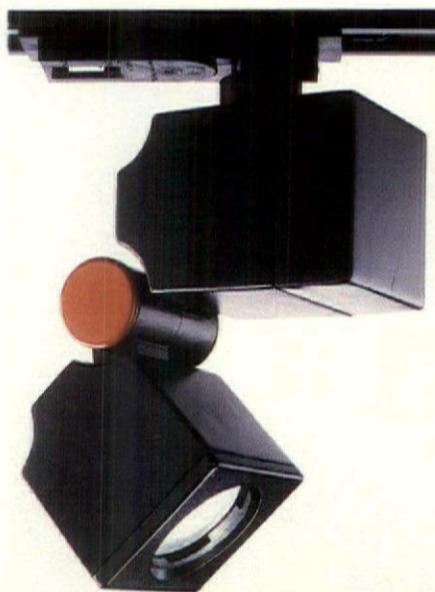


■ Two-circuit track

The Halo-2 two-circuit track provides two separate 20-ampere circuits in a miniature 1 1/16- by 1 1/8-inch profile. Each independently switched and dimmed cir-

cuit can accommodate 2400 watts. Connectors push into the ends of the track sections, eliminating the need for splicing. Halo Lighting, Elk Grove Village, IL.

Circle 64



■ Directional track fixture

Norbert Belfer Lighting offers a stem-mounted version of the model 5200 Primo Hi Beam, which comes supplied with Osram's PAR 36 metal reflector halogen lamp. The directional track unit requires a remote 12-volt transformer. Individual and multiple units for mounting on tracks or canopies and units for raceway mounting are available. Norbert Belfer Lighting, Ocean, NJ.

Circle 67

■ Track, accessories

Lighting Services Inc. offers accessories for its MR Series track and task lighting fixtures: glass color filters, colored swivel caps, light beam conditioners, louvers, light-blocking screens, and UV-blocking safety glass. The die-cast fixtures use MR16 lamps of all beam spreads. Track versions come with or without integral transformers. Lighting Services Inc., Stony Point, NY.

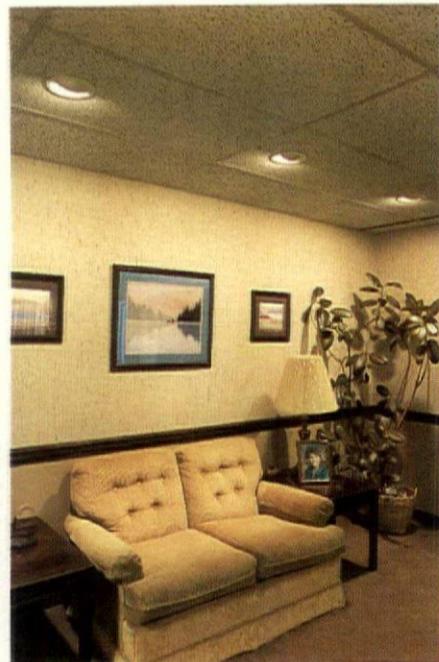
Circle 65



■ Picture light

Pictura halogen luminaires from CSL Lighting are designed to illuminate works of art 6 inches to 32 inches wide. They come with one to four 7-watt halogen lamps for works of various widths. A hidden pivoting slot mechanism adjusts the beam; contemporary or traditional bracket arms rotate 110 degrees. CSL Lighting, Inc., Los Angeles, CA.

Circle 66



■ Wall-washing downlight

Lithonia Downlighting's Gotham R series adjustable eyelid wall washer produces controlled lighting on vertical surfaces with an R40 lamp and a kicker reflector. The 6-inch aperture has a white aluminum trim and a black microgroove baffle. A semispecular Alzak reflector attaches to a rotatable die-cast eyelid that extends below the ceiling plane. Lithonia Downlighting, division of Lithonia Lighting, Conyers, GA.

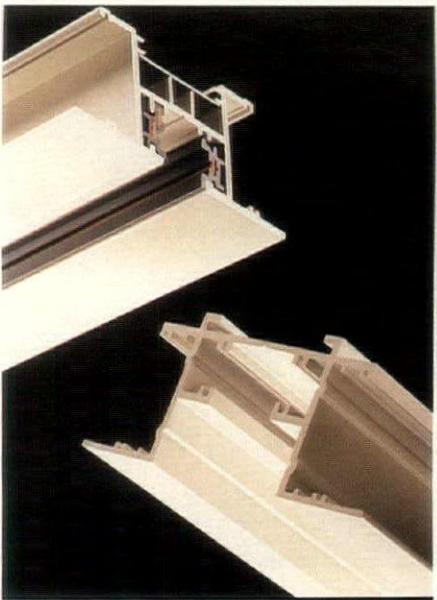
Circle 68



■ **Spotlight**

Lighting Services' 280 Series compact, specification-grade fixture for 50- and 75-watt screw-base PAR 30 halogen lamps has a standard track fitting and a range of mounting devices. Features include a self-locking steel yoke, an on-off switch on most models, and clips for a variety of accessories. It is suitable for applications requiring a moderate-intensity spot or flood beam. Lighting Services Inc., Stony Point, NY.

Circle 69

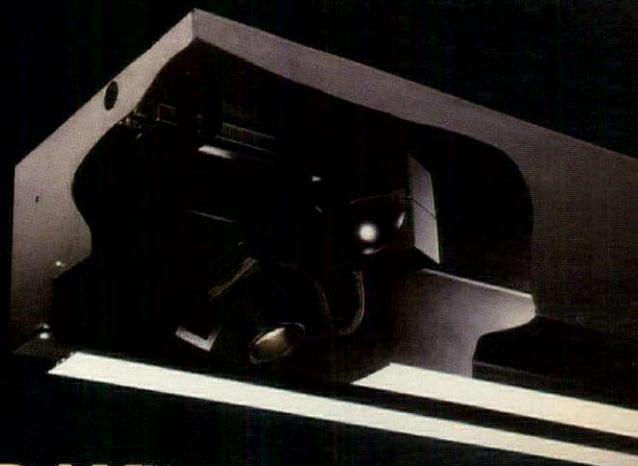


■ **Recessed tracks**

Halo Lighting offers two recessed track versions. The Recessed Raceway Power Trac (right) for plasterboard ceilings with straight runs has a live-end connector and a straight connector that links straight track sections. The Recessed Power Trac housing (left) encloses miniature one- and two-circuit track sections and is compatible with standard T-grid and most other ceiling materials. It accommodates straight runs and has a series of connectors for other configurations. Halo Lighting, Elk Grove Village, IL.

Circle 70

The Beauty of Track Lighting... without the Beasts!



RECESSED-TRAK™
From ALKCO

Track systems for accent lighting used to mean that the most noticeable (and distracting) accents were the track fixtures themselves!

Those days are over. New Recessed-Trak™ fits flush into any ceiling system...turns corners, runs to any length you desire. It tracks without distraction!

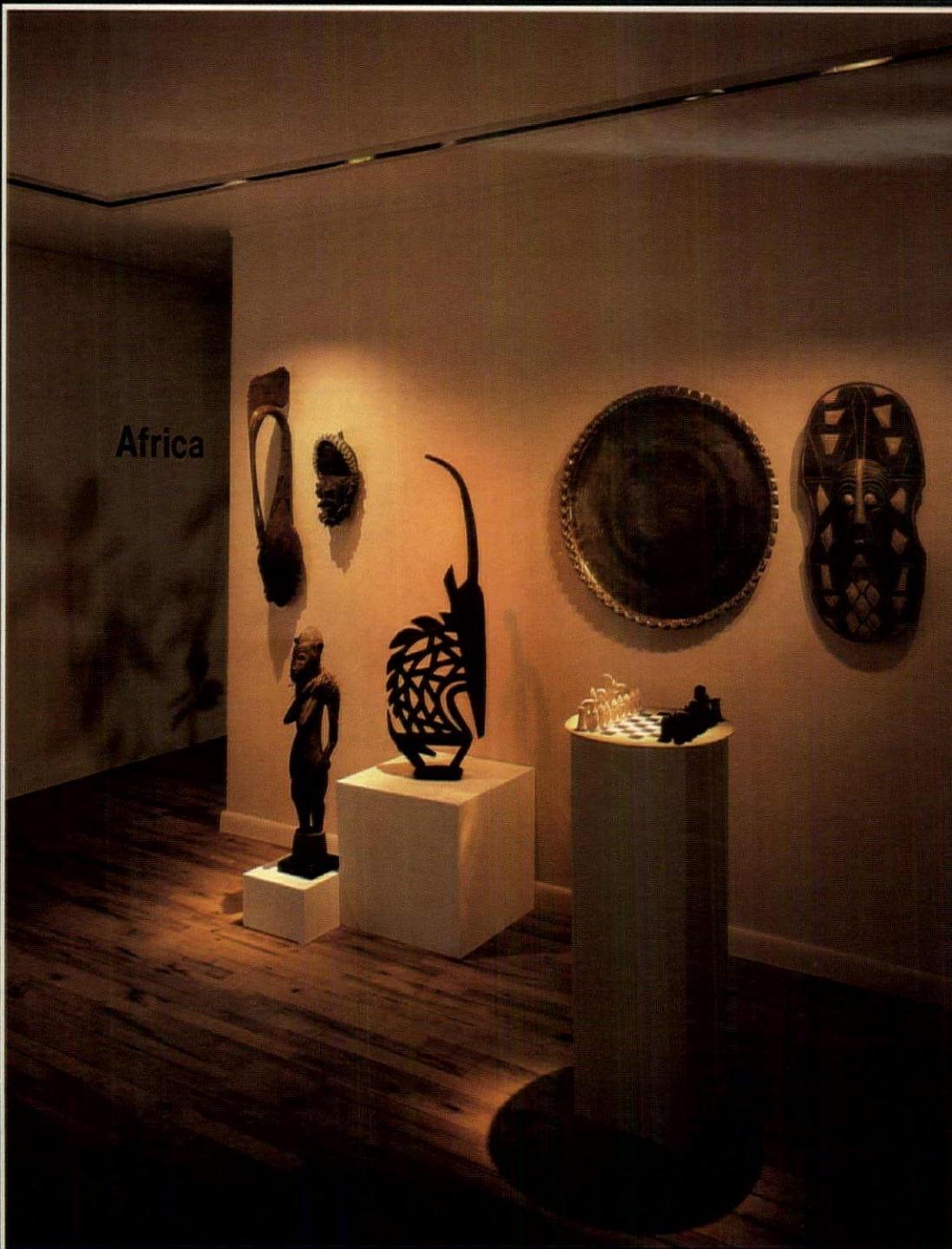
Totally concealed inside the housing, lightmodules can be placed anywhere along the track, rotated 380° and adjusted up to 40° from vertical.

You can pinpoint, accent, highlight or flood. Optional lenses and filters produce special effects and vivid colors. Twin circuits allow individual control of lightmodules for maximum flexibility.

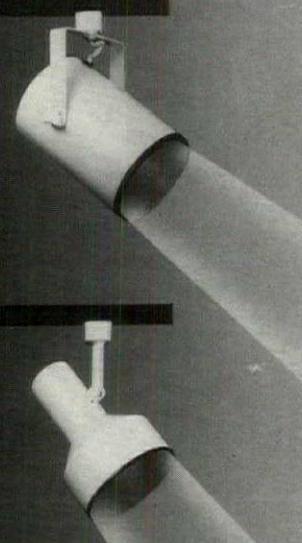
Miniaturized quartz halogen lamps emit true white light with exceptional color rendering.

Now, when your accent lighting message isn't the system itself, your medium most surely should be Recessed-Trak, from Alkco.

For your copy of Alkco's new condensed Space Enhancers catalog, write to the address below.



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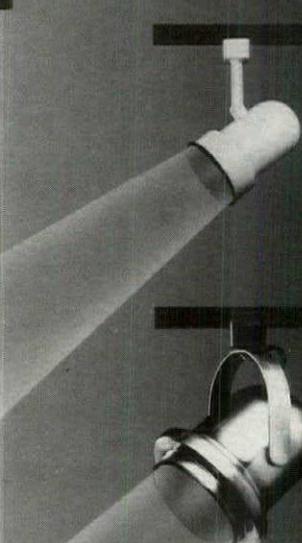
LIGHT on the budget!

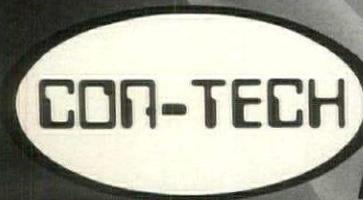
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Write for complete specifications and prices.



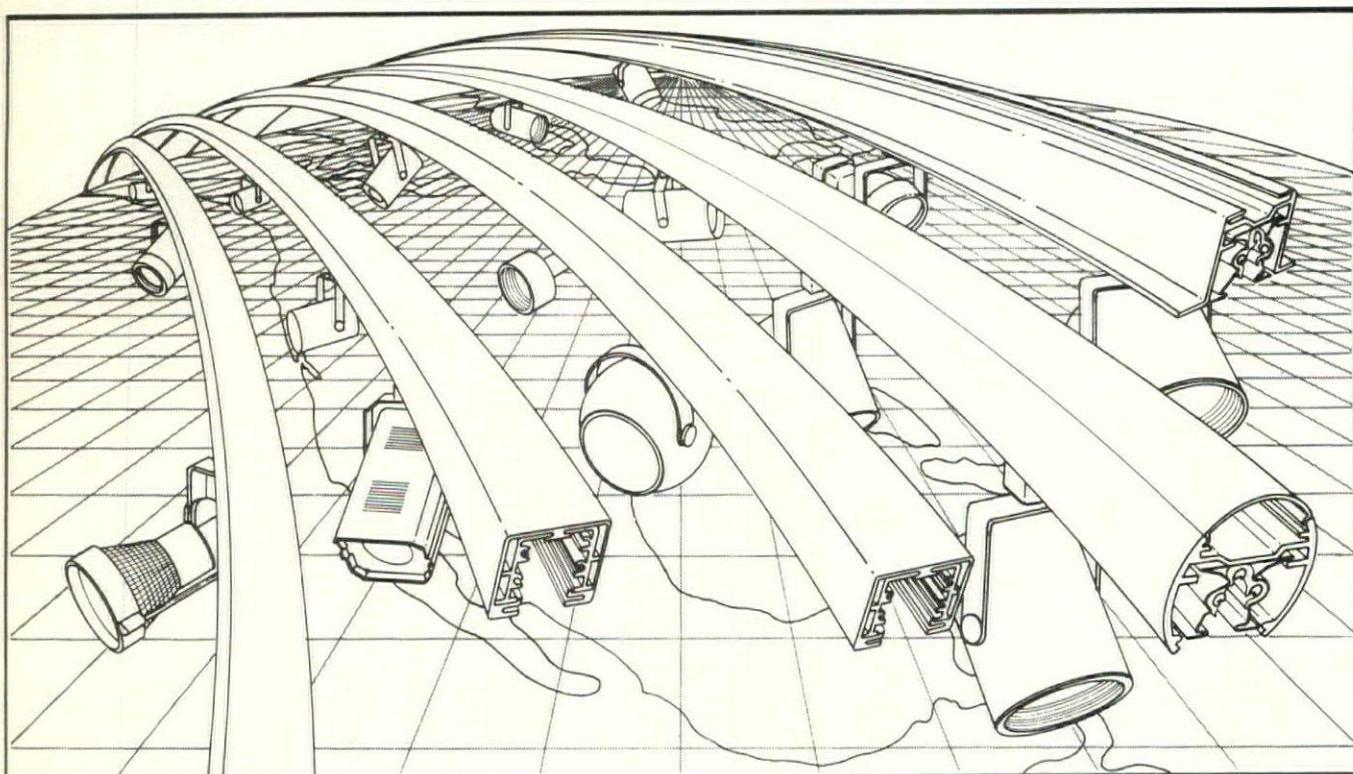


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This 8-page, 4-color brochure shows the complete Con-Tech **LIGHTING ZONE™** track light system.

Circle 11



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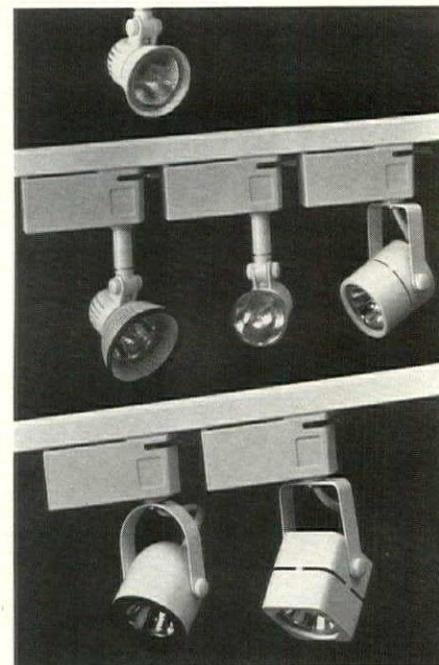
Circle 12



■ **MR16 track fixture**

The ventilated construction of the Siena track fixture from Luma Lighting keeps operating temperatures low by causing convection currents to flow over the lamp and release heat. Its extruded aluminum body functions as a heat sink; its two-circuit track allows for remote transformer placement. It is the smallest 75-watt MR16 track fixture available, according to the manufacturer. Luma Lighting Industries, Inc., Orange, CA.

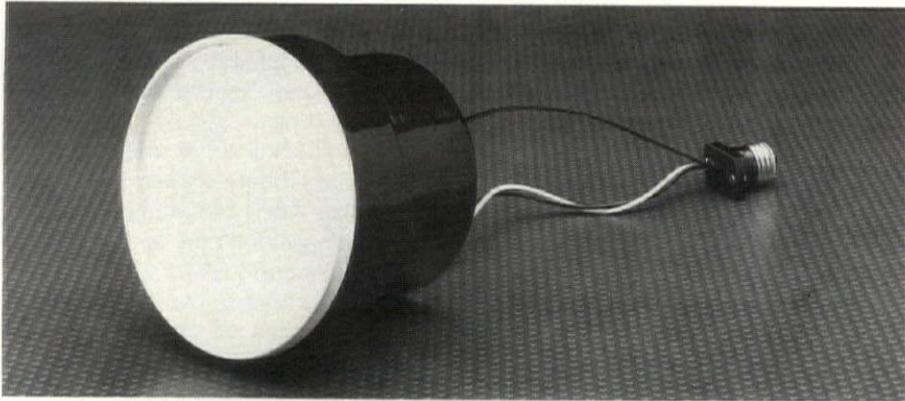
Circle 71



■ **Low-voltage track components**

Max Groups offer a complete line of compact, lightweight, low-voltage track lighting components and fixtures for 12-volt MR16 lamps. More than 20 styles are included in the line, which features built-in solid-state transformers. The fixtures attach to standard tracks. They come in matte white and matte black finishes. Max Groups, Burlingame, CA.

Circle 72

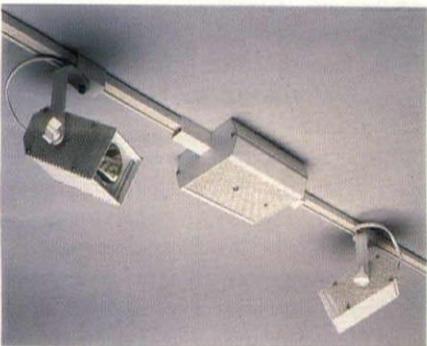


Track light retrofit

The X18 Track Light Retrofit fixture from Scientific Component Systems fits housings 5 1/8 inches in diameter and larger and accepts two compact fluorescent lamps. The aluminum housing comes in a choice of standard and custom finishes;

the polycarbonate diffusers come in three colors. Scientific Component Systems, Anaheim, CA.

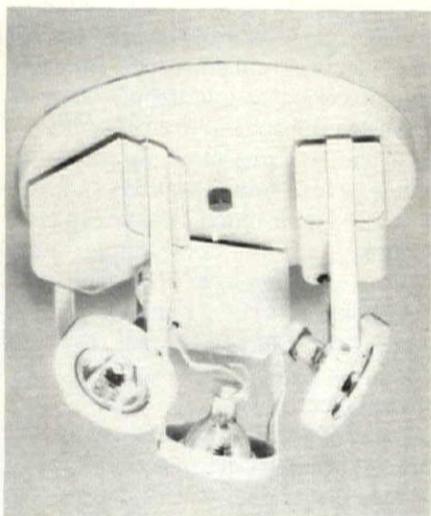
Circle 73



Surface-mounted transformer

A slim, surface-mounted transformer for Luma Lighting's two-circuit low-voltage track system has fuses that protect each circuit from overloads. The toroidally wound transformer is silent, according to the manufacturer, and comes in 150- and 300-watt versions. Luma Lighting Industries, Inc., Orange, CA.

Circle 74



Halogen accents

Roxter's compact low-voltage sealed-beam fixture swivels a full 360 degrees and has individual transformers housed in each lamp holder. The 8 1/2-inch-high fixture comes in single, double, and triple lamp models with canopy diameters from 5 to 10 inches. A 50-watt halogen spot lamp is standard; 25- and 50-watt lamps in other beam spreads are optional. Roxter Mfg. Corp., Long Island City, NY.

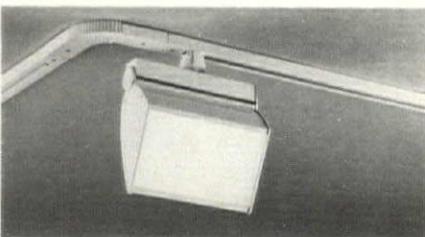
Circle 76



Drafting board luminaire

Waldmann Lighting's ZLS drafting board luminaire lights a board from edge to edge, while permitting unrestricted carriage movement. Its counterbalancing system and adjustable head keep the light where the user positions it, regardless of board inclination. Options include a parabolic louver instead of the standard prismatic diffuser. Waldmann Lighting Company, Wheeling, IL.

Circle 75

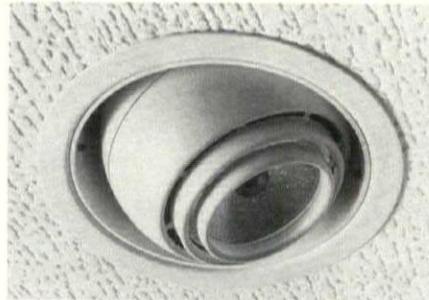


HID track

Guth Lighting's Q-Trak fixtures accommodate 150-watt metal halide lamps. They can be moved laterally to any location along their track, swiveled 60 degrees, and locked into position. Their extruded Alzak reflectors have computer-positioned prisms for uniform light distribution free of scallops, striations, and

hot spots, according to the manufacturer. Guth Lighting, St. Louis, MO.

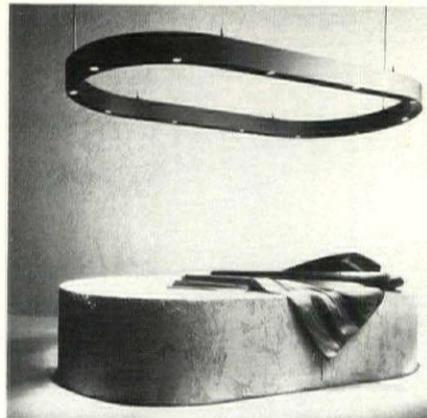
Circle 77



Recessed low-voltage fixture

The Recessed Orb II from the Alesco line of Sylvan Designs is a miniature recessed luminaire for 20- and 50-watt halogen lamps. It measures less than 6 inches in diameter, including trim ring. The luminaire can be rotated 360 degrees horizontally, adjusted as much as 30 degrees from vertical, and locked in place. Sylvan Designs, Inc., Northridge, CA.

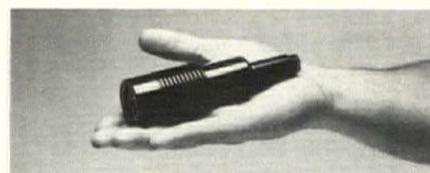
Circle 78



Ambient accent lighting

Lightolier's modular ADA ambient, decorative, and accent lighting system allows users to combine modules with various light sources into rectangular, circular, or zigzag patterns. The system's linear segments, arcs, and intercepts join in a variety of configurations. An interlock mechanism ensures a hairline seam between modules. Buyers can choose from fluorescent, low-voltage MR16, glitter light, and neon sources. Lightolier, Secaucus, NJ.

Circle 79

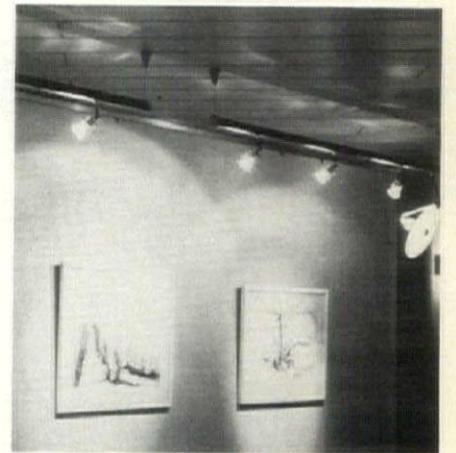


Low-voltage fixture

CSL Lighting's Miniatura low-voltage fixtures are designed especially for MR11 halogen lamps. The 1 1/2-inch-diameter solid aluminum fixtures range from 5 3/4 to 7 inches in length. The series includes ceiling fixtures, broad spots, and framing

and iris projectors. CSL Lighting, Inc., Los Angeles, CA.

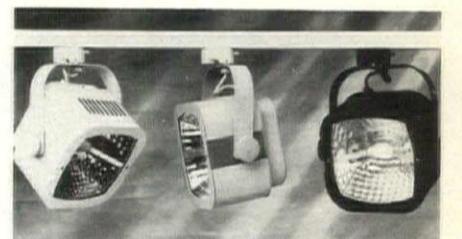
Circle 102



Suspended track system

Flos offers Arteluce's Expanded Line, a low-voltage suspended track system designed by Perry A. King and Santiago Miranda. Each narrow aluminum track hangs from two stainless-steel cables and is powered by one or two surface-mounted or remote transformers. Four fixture styles are available to mix or match for MR16 and miniature bipin quartz lamps. Tracks come in two lengths with outlets for four or six fixtures. Flos Incorporated, Huntington Station, NY.

Circle 103



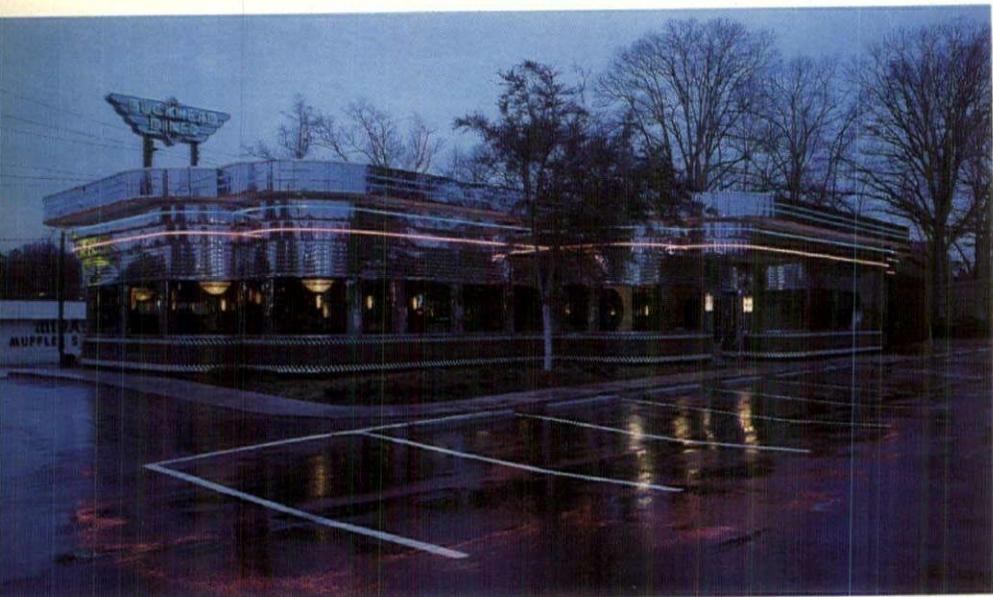
HID display light

Amerlux offers the SP 600, a high-performance spotlight/floodlight with an integral metal shield and safety glass that prevents emission of ultraviolet rays. The fixture uses Osram HQI-TS metal halide lamps for exceptional color rendering and for lamp life substantially longer than that of incandescent sources. Amerlux, Fairfield, NJ.

Circle 104

DECORATIVE LUMINAIRES

Handmade luminaires relax, stimulate diners



The Buckhead Diner, which features eight custom decorative luminaire designs, offers a stimulating refuge. A modified hood ornament crowns the sconce at left.

Project: The Buckhead Diner
Location: Atlanta, Georgia
Client: Buckhead Life Restaurant Group
Architect: Patrick Kuleto, Kuleto Consulting and Design
Lighting Consultant: Pam Morris
Photos: © 1988 E. Alan McGee/Atlanta

People may tolerate harsh lighting in a post office or bank, but customers visit a full-service restaurant to enjoy the experience. "If it's not a really special space, one that meets the needs of a human being, it doesn't work," says Pam Morris. "Owners get the feedback really quickly: they go bankrupt."

Morris was lighting consultant for Atlanta's Buckhead Diner, which offers gourmet dining in a comfortable, classy environment. The old roadside diners never looked like this. Inspired by an Orient Express luxury rail car, the opulent Buckhead cost \$1.5 million to build. One patron told a *New York Times* reporter, "This place appeals to my lower-class roots on one level and my six-figure income on another."

Architect Pat Kuleto points out that the Buckhead is not a gimmicky contrivance. "It feels real," he says. Handmade decorative luminaires — in eight commissioned custom designs — contribute to the atmosphere of quality.

"Lighting is part of all the places where people find themselves in love or in a romantic mood," Kuleto explains. "Think of a sunset, for example, or a cabin with a fireplace." He intended the Buckhead to be a romantic place where people feel secure, yet transported to a special and exciting environment.

Kuleto calls his approach *apparent lighting*. Unobtrusive, recessed low-voltage downlights provide crisp, clean task light where it's needed to navigate aisles, read the menu, and see the food. To the customers, however, elegant decorative fixtures appear to be the light sources.

"Decorative fixtures have a presence," says Morris. "They are very noticeable, and people think they light the room. Yet if these fixtures were actually turned up to the brightness required to do that, their artistic quality would be washed out."

"I work with the feeling that light can produce," she continues. "A lot of times, a design will stumble, alternating between usefulness and fantasy. Or, it tries to balance the two artificially — trying to make an artistic light useful in a way that ruins the artistry, or to make a useful light artistic in a way that really is cluttered and distracting. A considerable amount of sensitivity is required to create a harmonious balance. It's not merely a simple formula with a working light and a mood light."

"Often when people are creating a mood, they just think in terms of dimming the lights. That would be like playing the same music all the time, just at different volumes," Morris says.

The materials, shape, and color of a decorative luminaire all help to evoke feelings that are appropriate to a specific setting.

For the Buckhead, Morris personally designed the booth sconces. Kuleto recalls that when he commissioned them, he specified only approximate physical dimensions and a lighting effect. "I asked her to make something vertical," he says, "a soft, sleek fixture with a warm glow that would reflect off people's faces and light up the wood. I had no idea what she was going to come up with."

Morris chose to modify and cast a vintage 1940s Pontiac hood ornament for the sconce. "The old diners were drive-up restaurants that had a vital relationship with automobiles, so the hood ornament vestige is particularly appropriate," she says.

A narrow vertical channel and a plastic insert pierced the original ornament. Morris enlarged the channel, then inserted a patterned piece of dichroic acrylic that transmits light from inside the sconce. The photo shown here falls short of capturing the effect: "The insert is mercuriochrome orange on the lit edge and hot pink from the side," says Morris.

To blush the white glass diffuser with an apricot tint, Morris placed a pink backplate behind the flame-shaped chamber. The 130-volt linear incandescent lamp inside operates on 120-volt power for long life. Although turned up to full output in the photos, the lamp is normally dimmed for a gentle transition from the shadowy base to the brighter upper body. A flame-shaped extension of light flares through an open heat vent at the top, enhancing the warmth of the booth's hand-rubbed cherry wood.

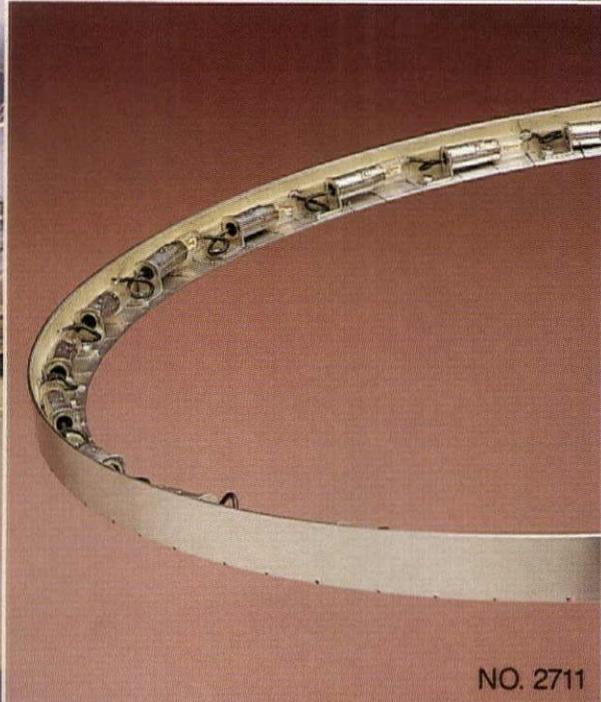
"Pat's restaurants are as trendy as you can get in terms of the people they attract, and yet they're not trendy in appearance," Morris says. "They have a timeless quality; they're institutions. People need a place to return to — a place to find excitement, but also comfort and rest."

—Gareth Fenley

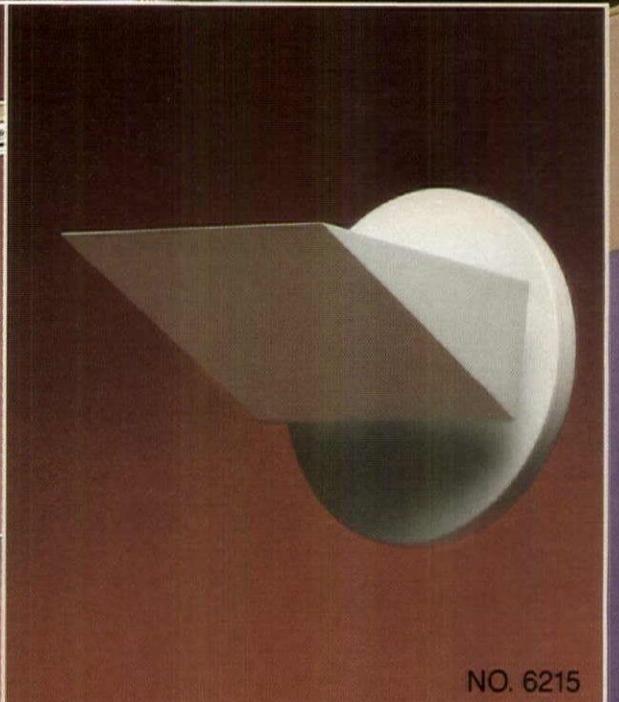
For product information, see Manufacturers on page 62. Decorative luminaires are displayed on pages 24–29.

norbert belfer lighting

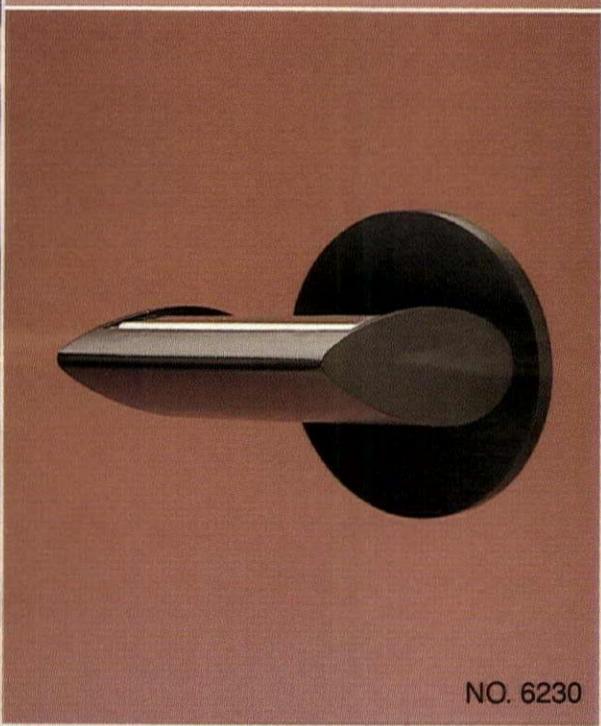
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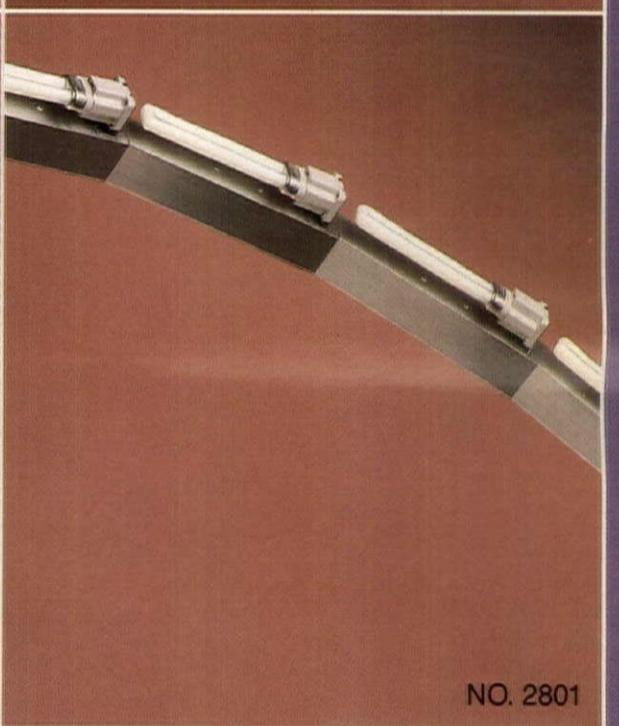
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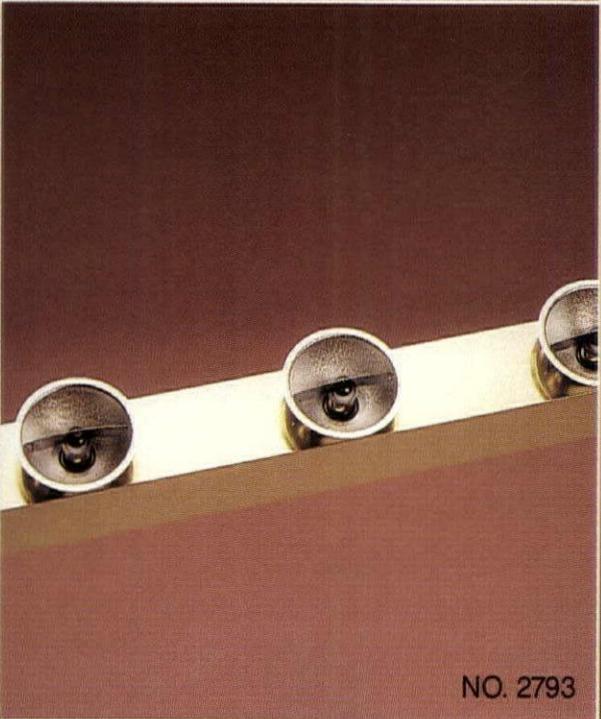
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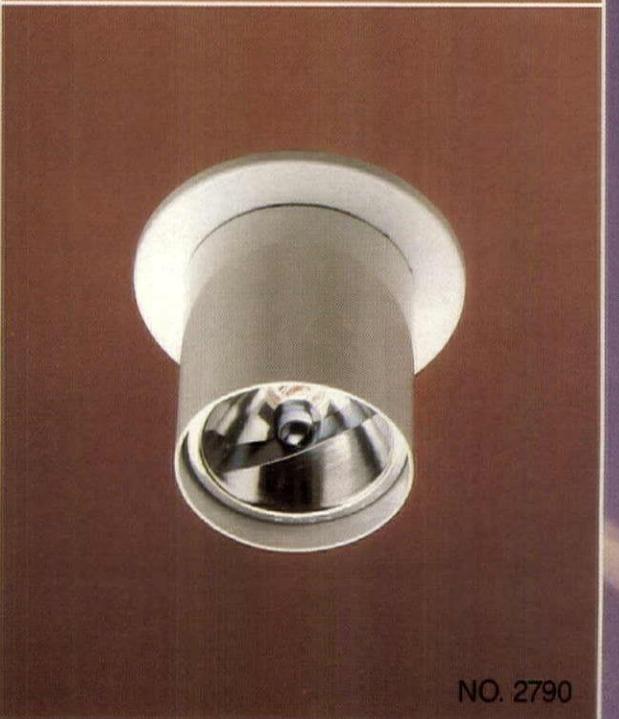
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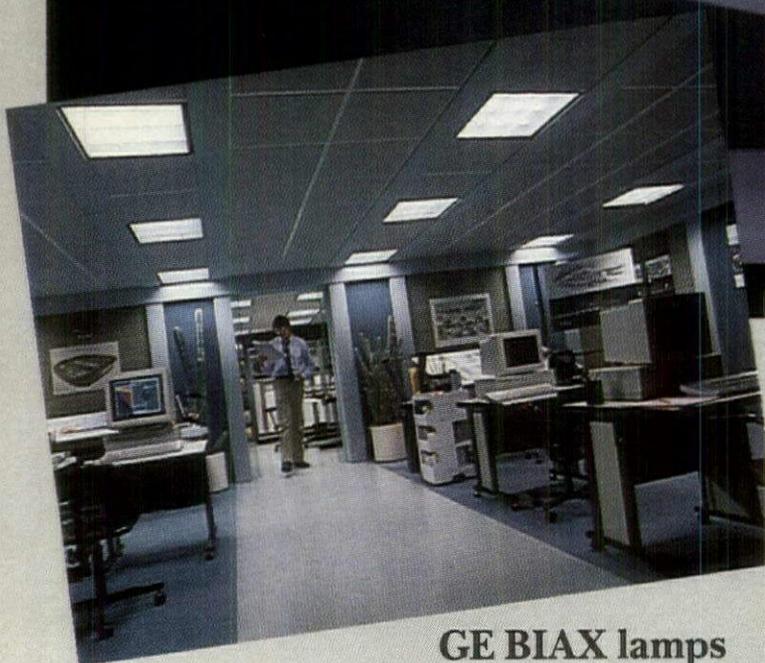
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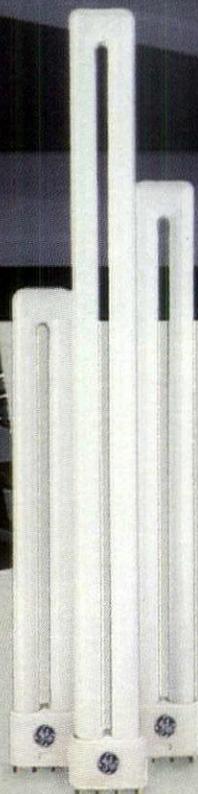
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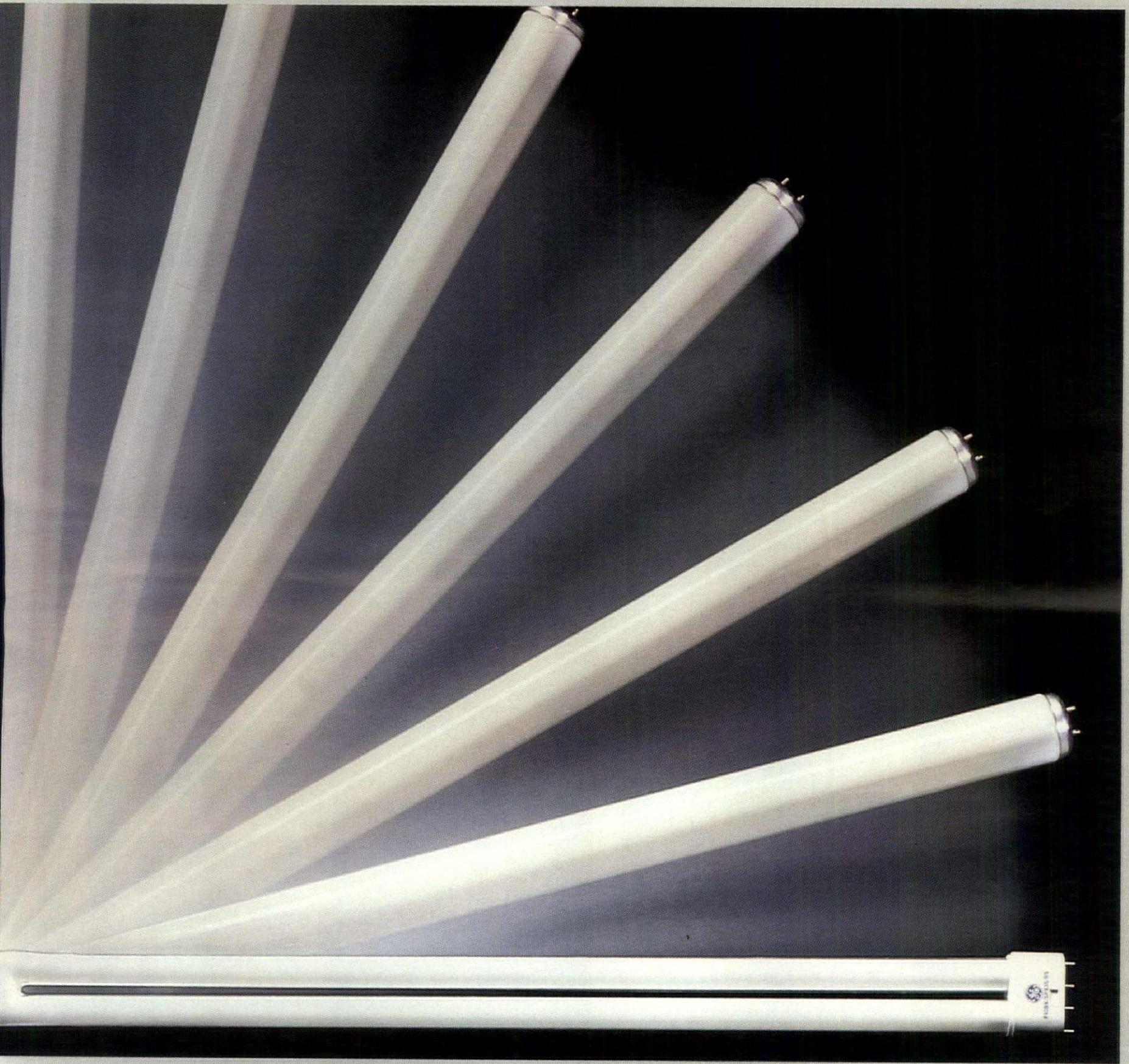


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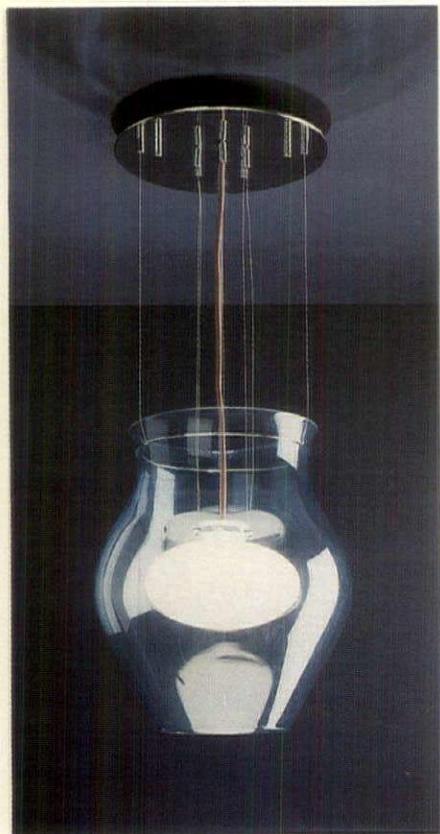
GE Lighting


SHOWCASE
Decorative luminaires

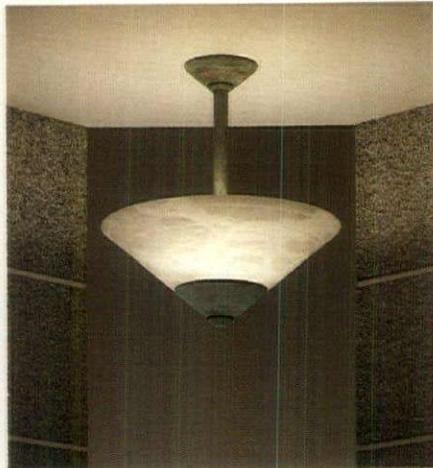
Marquee lights

Sunset Strip marquee lights from New Horizons Lighting come in straight and curved extruded aluminum strips for outlining indoor and outdoor features. They come in two sizes and a variety of finishes for Edison- or candelabra-base

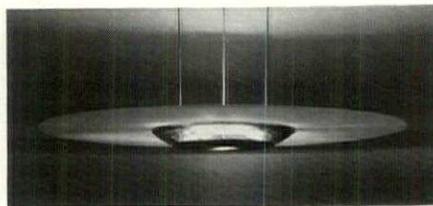
incandescent lamps. Versions for wedge-base and compact fluorescent lamps can be custom ordered. New Horizons Lighting, Inc., Palm City, FL.

Circle 80

Blown glass pendant

VeArt's Sorpresa pendant of transparent aquamarine glass has a white opaline glass centerpiece and hangs on chrome cables from a chrome-finished canopy. The 14 1/2-inch-diameter, 34-inch-long luminaire takes one 150- or 250-watt E14 halogen lamp. VeArt International Inc., Pte. Claire, Quebec, Canada.

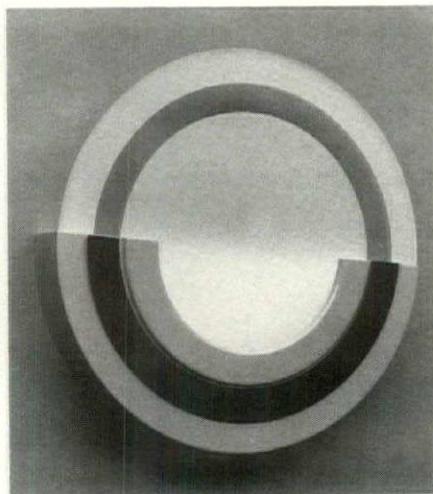
Circle 81

Alabaster pendant

Gary Cross designed the Cirrus pendant from Boyd Lighting to match a wall bracket. Each 17-inch-diameter pendant is individually quarried and turned from solid natural white alabaster and accommodates two 75-watt incandescent lamps. The brass stem is available in three lengths and four finishes. Boyd Lighting Company, San Francisco, CA.

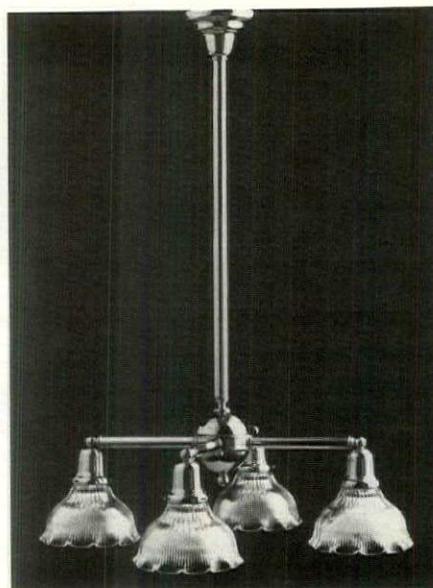
Circle 82

Decorative pendant lamp

Tech Lighting offers the Floppi pendant

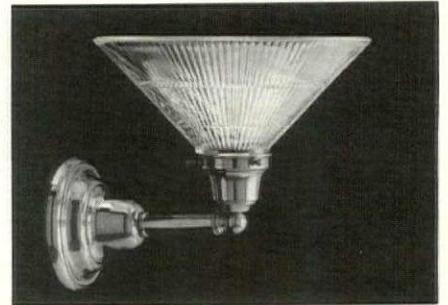
lamp from the Foscarini line of floor, task, wall, and pendant lamps. It has a 25 1/2-inch-diameter frosted glass disk with a blown and ground glass diffuser in blue or gray. Metal parts are lacquered black or white. The lamp accommodates a 300- or 500-watt halogen lamp. Matching wall- and ceiling-mounted models are available. Tech Lighting, Chicago, IL.

Circle 83

Decorative wall sconce

The G9000 wall sconce from Gross Chandelier is 12 inches in diameter, projects 2 3/4 inches from the wall, and takes two 9-watt compact fluorescent lamps. Its metal frame and trim support a glass disk with a pattern of frosted and clear concentric circles. Gross Chandelier Company, St. Louis, MO.

Circle 84

Stem-mounted luminaire

The Santa Barbara from Brass Light Gallery's Continental Collection is a stem-mounted solid brass luminaire with four prismatic shades. It takes four incandescent lamps up to 150 watts each; two- and three-lamp versions are available, as are other finishes, glass shades, and various finishes. Brass Light Gallery, Milwaukee, WI.

Circle 85

Wall sconce

Art Directions offers a solid brass wall sconce that takes a 60-watt incandescent lamp. The sconce shown here has a clear ribbed glass shade; many other shades and finishes are available. Art Directions, St. Louis, MO.

Circle 86

Wall sconces

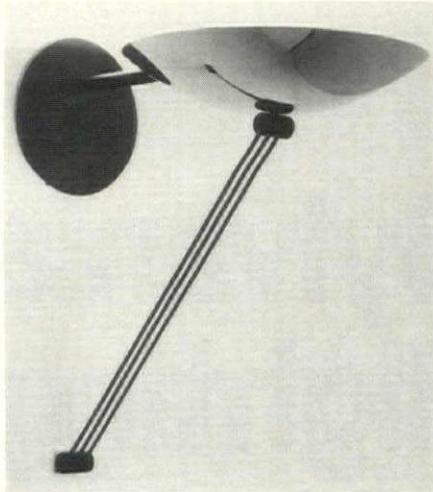
Gross Chandelier has introduced a series of wall sconces as companion pieces to the series 12000 chandeliers with inverted acrylic diffusers. The sconces come in models for incandescent and compact fluorescent lamps. Gross Chandelier Company, St. Louis, MO.

Circle 87

Solid brass chandelier

Rejuvenation Lamp & Fixture offers the Alameda four-arm chandelier with a design based on motifs from the Arts and Crafts Movement. It is available in seven authentic metal finishes; its art glass lantern panels come in several colors. Rejuvenation Lamp & Fixture Company, Portland, OR.

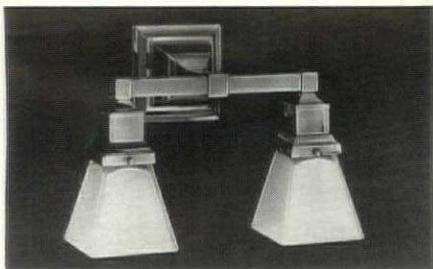
Circle 88



■ Designer uplight

Three painted metal stems and a canopy support a metal dish from Tech Lighting, which is 12 inches high and projects 12 inches from the wall. The light source is a 300- or 500-watt T3 halogen lamp. Finishes are combinations of black, white, chrome, and brass. Tech Lighting, Chicago, IL.

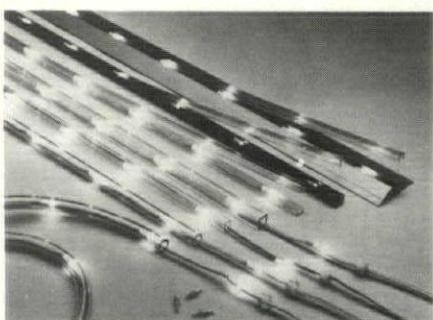
Circle 89



■ Wall-mounted luminaire

Brass Light Gallery's Sherman Park double-lamp wall sconce is part of the Goldenrod Collection of luminaires based on original Arts and Crafts, Mission, and Prairie designs. The sconce comes in a variety of finishes, can be mounted up or down, and takes two incandescent lamps up to 150 watts each. A matching single-lamp model is available. Brass Light Gallery, Milwaukee, WI.

Circle 90



■ Relampable light tubes

Users can replace the miniature incandescent lamps in E-Z Streams light tubes from Sylvan Designs by sliding the 12-volt light string out of its flexible channel or removing the clear plastic cover from the rigid channels to expose individual sockets. Options include stan-

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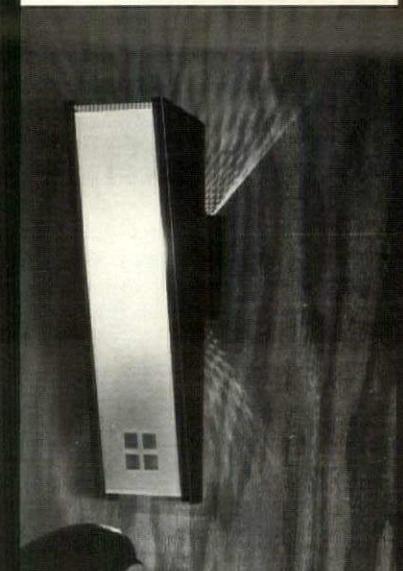


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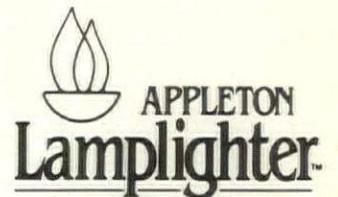
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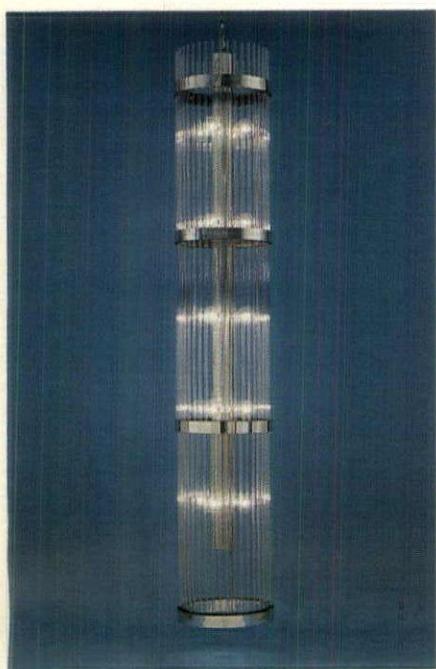


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Circle 17

dard and custom on-center lamp spacing, colored and frosted tubes, and tubes and extrusions in various shapes and sizes. Sylvan Designs, Inc., Northridge, CA.

Circle 91



■ Custom chandelier

Appleton Lamplighter manufactures custom luminaires such as this 12-foot chandelier made for the World Computer Center in Auburn Heights, Michigan. Tiers of 4-foot-long, 3/4-inch-diameter glass rods are held together with polished chrome bands. A highly polished aluminum tube hanging down through the center supports 20 G40 lamps. Appleton Lamplighter, Appleton, WI.

Circle 92



■ Glass-shaded luminaires

Gemma Studios offers handcrafted incandescent luminaires from the Library/Torch series. Their multifaceted shades of domestic and European glass are assembled by the Tiffany copper foil technique. Bases and fittings are of pure copper and brass. Gemma Studios, Northampton, MA.

Circle 93

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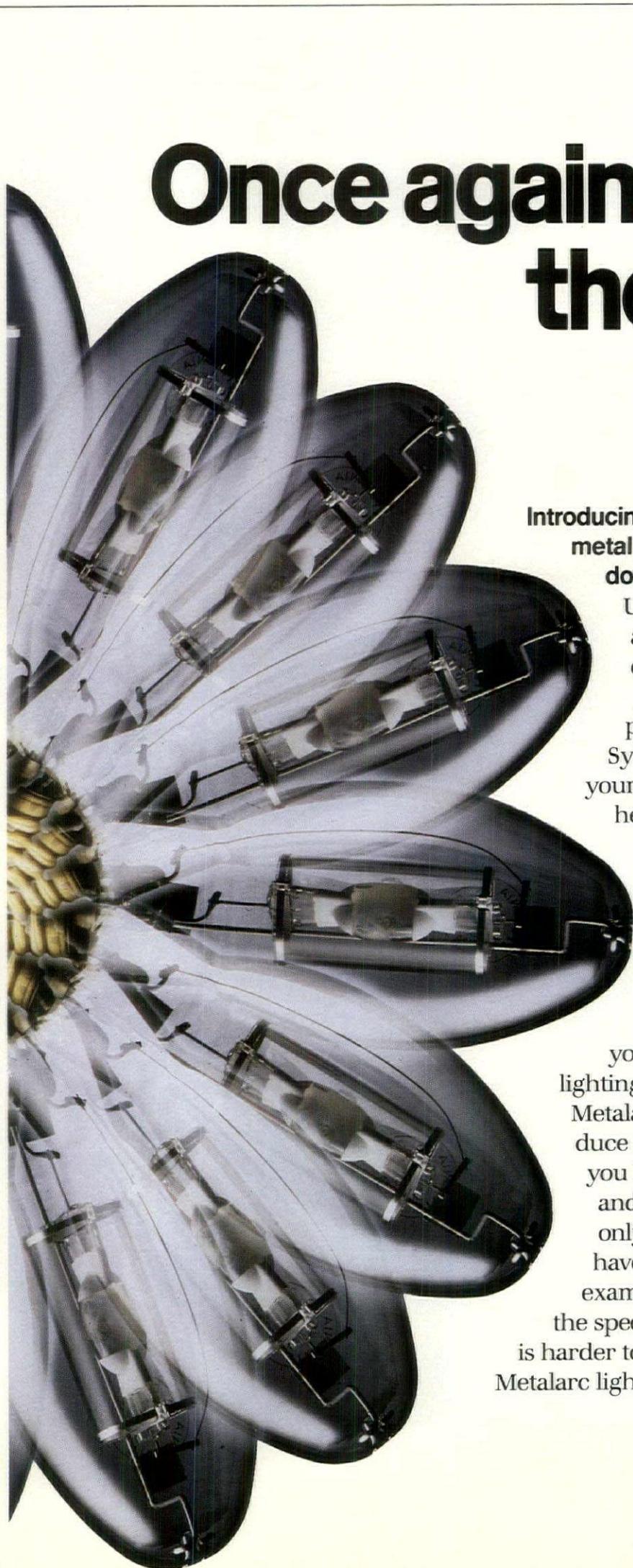
have a lot of things going for them. For

example, sodium lighting lacks blue in

the spectrum. So in a parking lot, a blue car

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engineers have turned world upside down.

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Lighting of St. Louis designed McDonald's new soffit light fixtures specifically around the 100 watt Metalarc lamp. Their decision was based on a full menu of benefits—from color rendering to energy efficiency to low maintenance.

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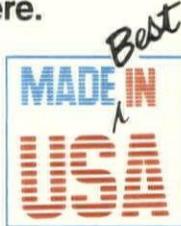


point source, the light can be better controlled and directed. Which is why Metalarc lamps are just the ticket for putting merchandise in the best possible light. In fact, they are preferred for commercial interiors of all kinds. Not only for color performance but also for energy efficiency.

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Circle 18



■ **Linear incandescent fixtures**

Alkco's Lincandescent fixtures for linear incandescent lamps come in three finishes with etched or hand-polished specular surfaces. The linear light source is mounted on a continuous 45-degree beveled platform and operates without the hum associated with fluorescent lamps. Triangular side reflectors can be added to conceal electrical boxes. Alkco, Franklin Park, IL.

Circle 94



■ **Wall sconce**

The MA-C2 20-inch wall sconce from Odyssey Illuminations has Art Deco styling and matches the company's MA chandelier. A molded acrylic lens shields an incandescent or a compact fluorescent lamp. The housing can be painted one of several standard metallic finishes or a combination of colors. Odyssey Illuminations, division of RWL Corporation, New Haven, CT.

Circle 95



■ **Alabaster wall bracket**

Boyd Lighting offers an alabaster version of the Brayton Wall Bracket; it features a linear armature with a translucent cylinder of Spanish alabaster. The optical system has an asymmetric reflector and a Pyrex shield. The bracket takes one RSC-base halogen lamp up to 300 watts. Boyd Lighting Company, San Francisco, CA.

Circle 96

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317-B

318-B

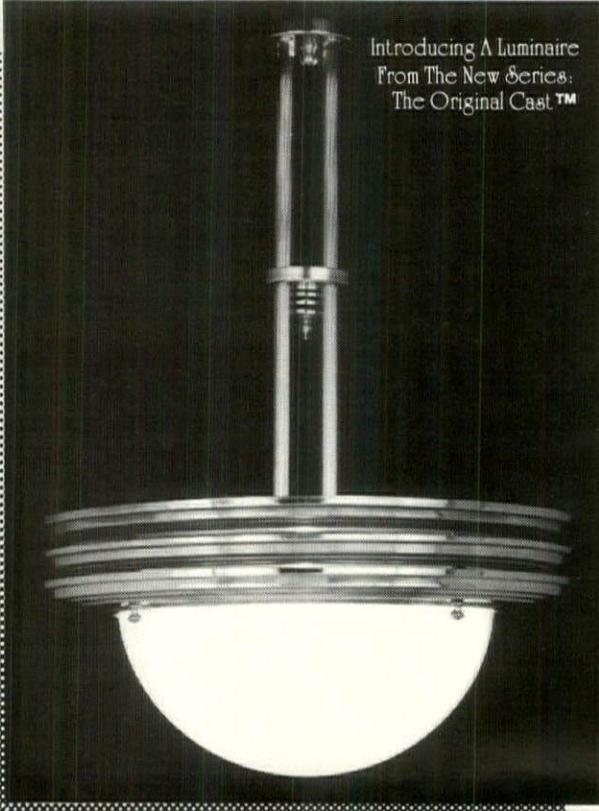
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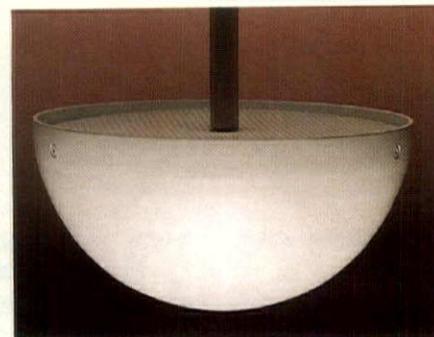
Circle 19

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Circle 21



■ Uplight

The Circon uplight from Norbert Belfer Lighting is an 8-inch-diameter hemisphere of 1/8-inch-thick spun aluminum. The luminaire accommodates a 150-watt halogen lamp. Norbert Belfer Lighting, Ocean, NJ.

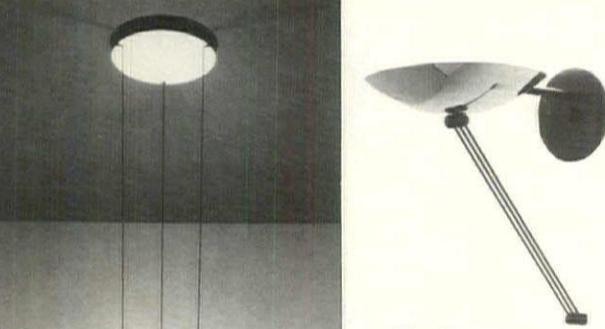
Circle 97



■ Brass wall sconce

The Jewell solid brass oval wall sconce from Rejuvenation Lamp & Fixture comes in seven finishes and a choice of shades. The 9-inch-high, 5-inch-wide sconce projects 7 inches from the wall and accepts a 60-watt incandescent lamp. Rejuvenation Lamp & Fixture Company, Portland, OR.

Circle 98



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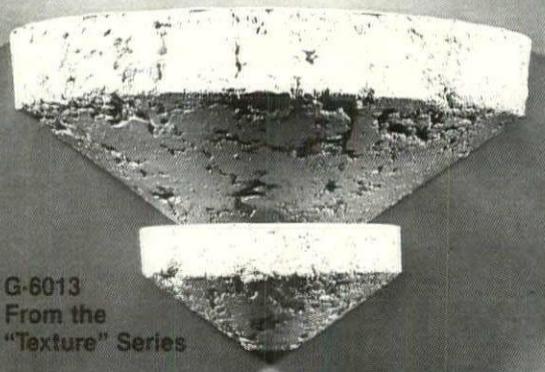
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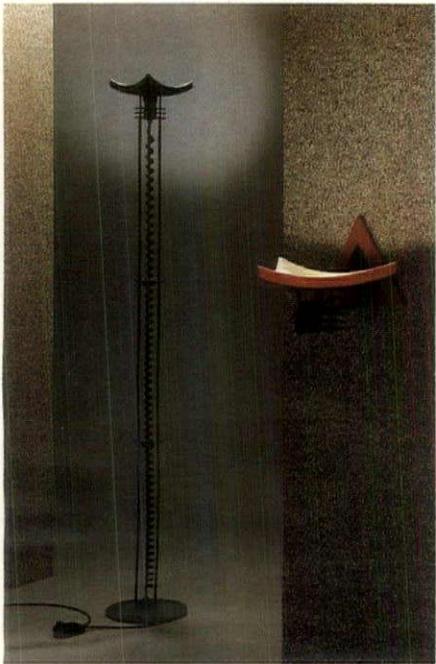


■ Flush-mount luminaire

Fredrick Ramond offers the model 305-FM, a 10-inch-diameter, 8 1/2-inch-high flush-mount luminaire from the Riva collection. The acrylic disk comes in clear, frosted, white, and a laminated version of clear and opaque white panels that transmits a neonlike blue or red

glow from its edges. The luminaire accepts a PAR 38 lamp. Fredrick Ramond, Inc., Cerritos, CA.

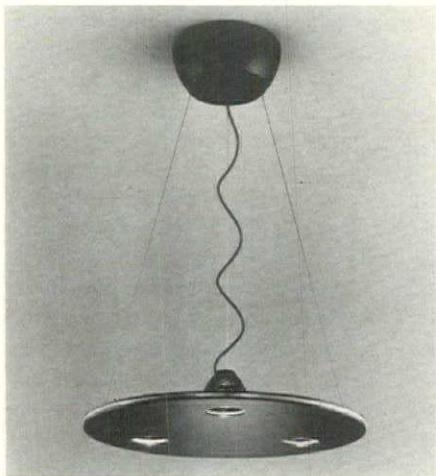
Circle 99



■ Torchiere, wall bracket

Boyd Lighting's Trigon series includes a wall bracket and a torchere designed by Doyle Crosby that feature triangular porcelain and aluminum castings. The 12 1/4-inch glazed porcelain shade comes in four finishes, the textured aluminum parts in two finishes. The torchere has a full-range cord line dimmer and accepts a 150-watt halogen lamp; the bracket accepts an incandescent or halogen lamp. Boyd Lighting Company, San Francisco, CA.

Circle 100

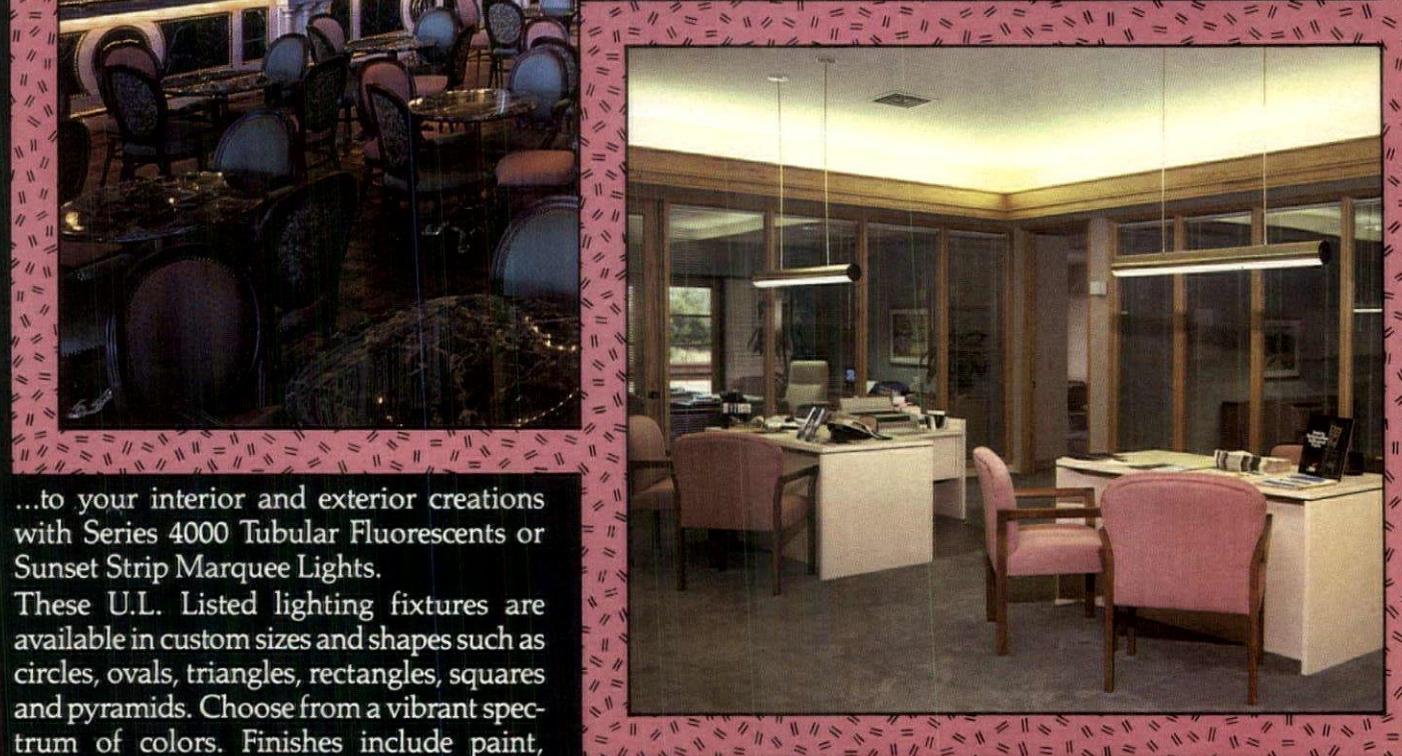


■ Pendant luminaire

The model 355 pendant luminaire from Fredrick Ramond's Riva collection features a 22-inch-diameter acrylic disk in a choice of three solid colors and a laminated version that has the appearance of a blue or red neon edge. It comes in three finishes and takes three 50-watt MR16 halogen lamps. Fredrick Ramond, Inc., Cerritos, CA. ■

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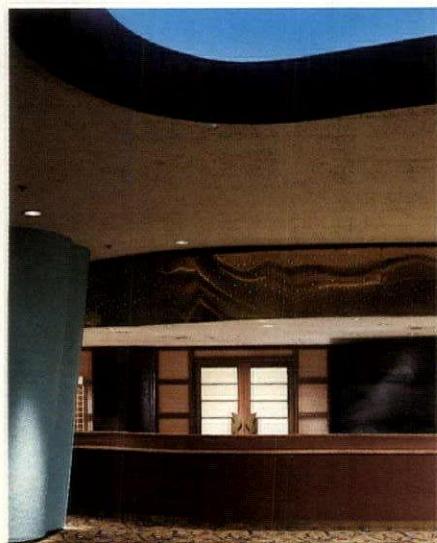
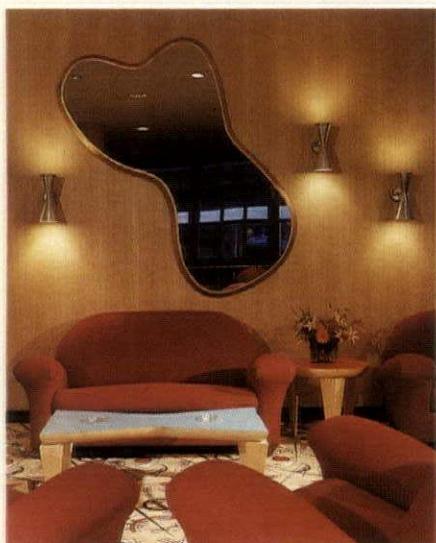
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AMBIENT LIGHTING SYSTEMS

Lighting design helps create '50s ambience in hotel



When extremely strong design elements are used to simulate an architectural epoch, appropriate lighting helps reinforce the illusion. Even simple ambient lighting, used in the right amount, can do the trick. Although a few relics of the 1950s remain — hourglass-shaped wall washers, and an original satellite-inspired light fixture — the Nevele Hotel lobby uses only spare washes of ambient light combined with judiciously placed cove lighting to evoke the period.

Built in the early 1900s, the hotel has been remodeled many times. Remnants of a major renovation in the 1950s provided some interesting elements — such as round ceiling recesses, sputnik chandeliers, and a kidney-shaped fountain — that inspired the architect to follow this period throughout the rest of the recent lobby renovation.

"The existing lobby was very chaotic," says architect Marc L'Italien. "Things had been added piece by piece and year to year, and there was no continuity. Our first priority was to establish some common ground to link everything together. So, in tying everything together we decided to create a focal point of the lobby registration desk and increase the desk's perimeter area. That's where the serpentine form originated."

"When you walk into the space, the visual emphasis is on the reception area," says lighting designer Bill Schwinghammer. "We backlit the doors behind the desk, and we washed the front of the blond maple mailboxes

The lobby's focal point is the registration desk (top photo) with its serpentine form and increased area; the brass fascia (also bottom right) is blasted from behind by metal halide floodlights, a tribute to 1950s lighting. The refurbished sputnik chandelier is flanked by quatrefoil-shaped columns washed by downlights (middle). Original wall washers relocated from elsewhere in the hotel add to the Nevele's low-key ambience.

Project: Nevele Hotel and Country Club

Location: Ellenville, New York

Architect: Alan Buchsbaum

Project Architect and Designer: Marc L'Italien

Project Coordinator: Corey Delany

Lighting Designer: Johnson Schwinghammer, Inc.

Electrical Contractor: Herb Kaplan

Photos: Elliott Kaufman

and the fluted glass walls behind them with adjustable low-voltage downlights. The desk top is illuminated with them as well."

The designers wanted the brass fascia above the desk to look "starry and jet-age," Schwinghammer says, "but we didn't want the cost and maintenance problems of wiring up a lot of light bulbs. Instead, we just perforated it with hundreds of tiny holes, and blasted it from behind with five exterior metal halide floodlights. They don't use a lot of energy, they have a long lamp life, and they weren't expensive. We applied a scrim material to the back side of the fascia to diffuse the light and make the dots glow."

The existing columns in the lobby were replastered to achieve their current tapered quatrefoil form and painted aqua. "The form is outlined at the ceiling with concealed cold cathode. We used recessed PAR 36 spotlights to streak down the sides and emphasize the shape of the columns. These had to be retrofit-type fixtures that could be installed from below, so that we could install the fixtures without ripping out the existing ceiling."

There is an area of the ceiling between the columns that pops up, which was also a product of the 1950s renovation, but no fixture was hanging there. "We took the sputnik chandelier from another area in the hotel, had it cleaned and rewired, and hung it to fill the recess," says Schwinghammer. Elsewhere in the lobby was another existing teardrop-shaped recess in the ceiling, which had once been lit by cold cathode in a cove. But that had burned out long ago. "We thought it would be worth it to relamp the shape. It was painted the same turquoise blue as the columns, and a rather cool 4300 degree Kelvin tube was built into the cove to bring out that blue, which it does quite nicely." Elsewhere, refurbished up-down wall washers from the period dot the walls near seating groups.

"At night, the lighting really takes over the space and can display what we were really after," says L'Italien. "It has a very low-keyed kind of ambience. With the accent features punched out in a certain way, you really read them when you walk into the space, and you're really drawn to them."

—C.L.

For product information, see Manufacturers on page 62. Products for ambient lighting applications are displayed on pages 34-37.

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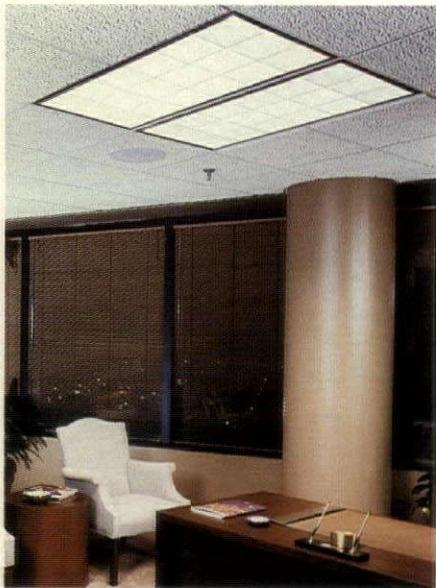
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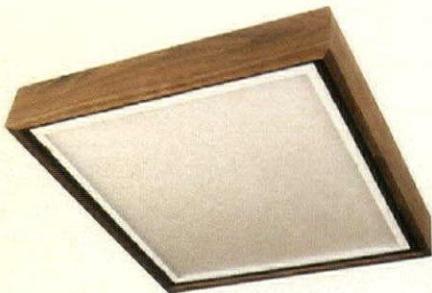
Ambient lighting systems



■ Parabolic troffer

The Paramax fluorescent parabolic troffer from Lithonia Lighting comes in a choice of fixture and lamp sizes, number and depth of louver cells, louver finishes, air functions, and mounting configurations. The line includes a variety of recessed and surface-mounted models. Lithonia Lighting, Conyers, GA.

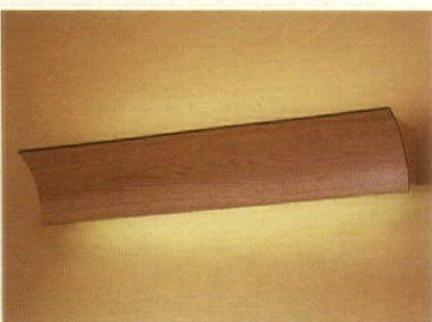
Circle 110



■ Wood-framed luminaires

Wood Classics fluorescent luminaires from H.E. Williams feature 3/4-inch-thick solid oak and walnut frames with mitered corners and a hand-rubbed oil finish. Diffusing panels, louvers, and doorframes come in several styles and finishes. H.E. Williams, Inc., Carthage, MO.

Circle 111

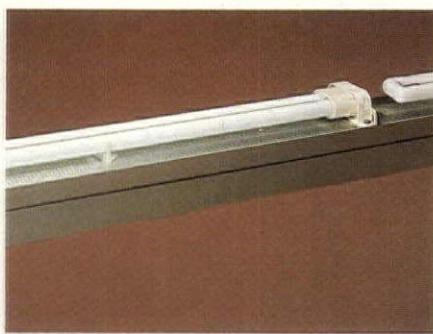


■ Wall-mount fluorescent

Woodline fixtures from Alkco integrate the beauty of natural oak with high-quality indirect lighting. Models come with the wood shield angled for primary indirect uplighting or for equally

distributed up- and downlighting with optional separate switching. Alkco, Franklin Park, IL.

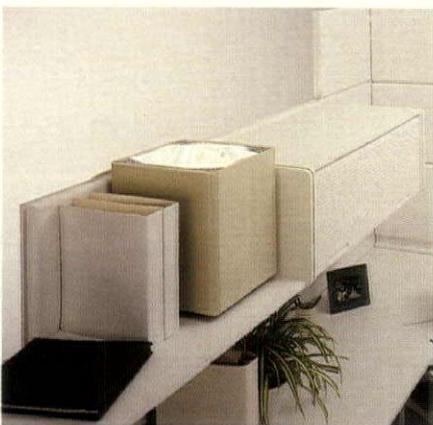
Circle 112



■ Compact fluorescent strip

Norbert Belfer Lighting's compact fluorescent light strip features an extruded aluminum continuous raceway in factory-mitered runs and custom lengths. The quiet, self-starting ballast is housed in the raceway; lift-up sockets allow for easy relamping. Three models are available to accommodate lamps from 18 to 39 watts. Norbert Belfer Lighting, Ocean, NJ.

Circle 113



■ Portable HID uplights

SPI Lighting's SPD portable HID indirect luminaires are 14 1/2-inch-high cubes with rounded corners and either rubber feet (for flat surfaces) or mounting brackets (for office panels). They have multifaceted specular reflectors for symmetrical or asymmetrical distribution. SPI Lighting Inc., Mequon, WI.

Circle 114

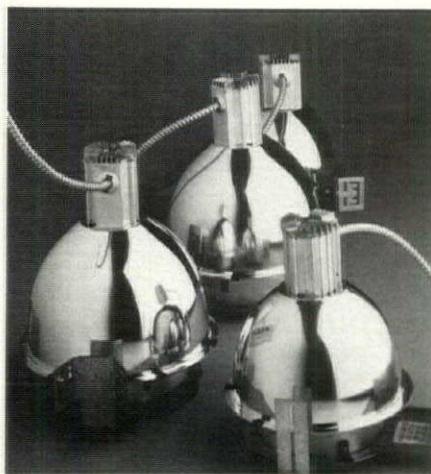


■ Fluorescent luminaires

Brodwax Lighting's Venicianaire fluorescent luminaires have lacquered wood

frames. They are available with flat or drop white acrylic diffusers and the miniparacube diffuser shown. Three sizes, each with several lighting configurations, are available. Brodwax Lighting, Island Park, NY.

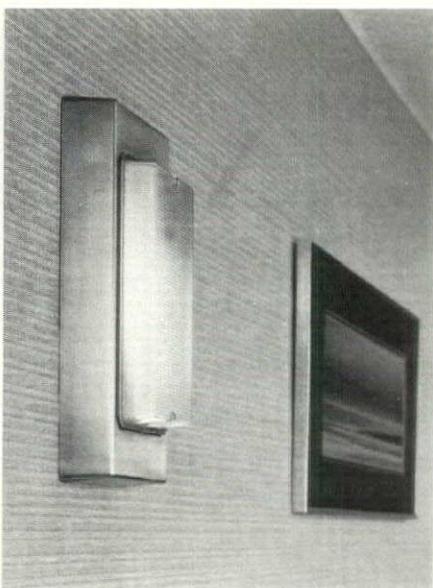
Circle 115



■ Incandescent downlights

Perfeclite's incandescent downlights have a spun aluminum aperture collar attached to a specular Alzak reflector. A die-cast frame supports the reflector-collar assembly. The collar houses a one-piece specular reflector and cone trim for NQMEA units or a one-piece matte black multigroove baffle and trim for NQMRB units. Perfeclite Company, Cleveland, OH.

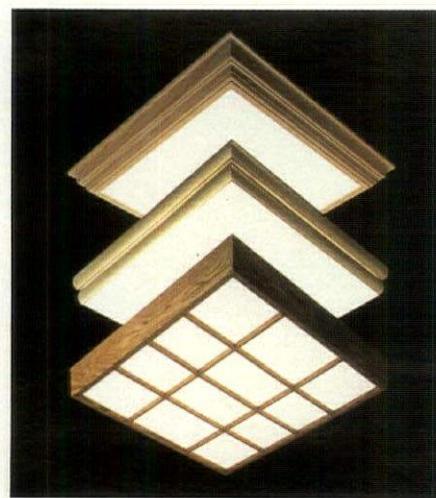
Circle 116



■ Security light

The model 3384 die-cast security light from Gim Metal Products has separate lamp, ballast, and igniter compartments and a vandal-resistant, injection-molded polycarbonate lens. Models are made for compact fluorescent, high pressure sodium, and low pressure sodium lamps. The luminaire can be wall- or ceiling-mounted; it is sold unassembled with all necessary hardware for OEM use. Gim Metal Products, Inc., Carle Place, NY.

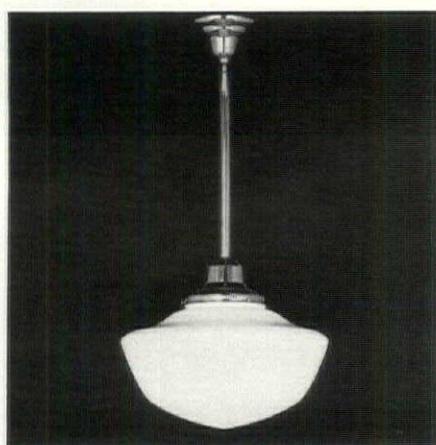
Circle 117



■ Designer fluorescents

Metalux Lighting has introduced the Sierra Series of surface-mounted designer fluorescent lighting fixtures for residential and commercial applications. The manufacturer is merchandising the fixtures with advanced, high color rendering lamps. Buyers can choose from five sizes, seven designs, and 11 finishes. Metalux Lighting, Americus, GA.

Circle 118



■ Pendant

A simple pendant from Art Directions accommodates a 100-watt incandescent A lamp. In addition to the opal translucent globe shown here, various shade styles, finishes, and lengths are available. Art Directions, St. Louis, MO.

Circle 119



■ Warehouse aisle lighting

Wide-Lite's AisleLyter HID luminaire for warehouse aisles has a four-position field-adjustable lamp socket for tailoring

light patterns to various aisle widths and ceiling heights. Its optical assembly provides vertical illumination and minimizes glare; auxiliary kick-blade reflectors direct light up and reduce dark scallops between luminaires. Options include switching ballasts and motion detectors. Wide-Lite, San Marcos, TX.

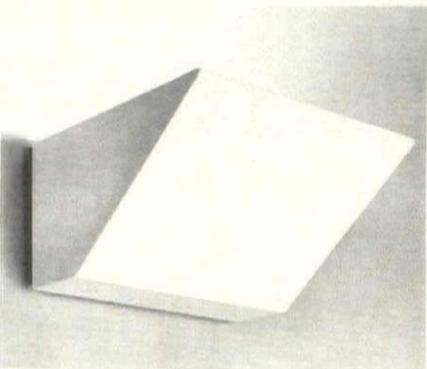
Circle 120



■ **Tubular fluorescents**

New Horizons Lighting offers the Series 4000 tubular fluorescent system in sizes from 2 to 9 inches across and in six custom-extruded shapes. Versions are available for direct, indirect, and combination direct-indirect lighting; some also have tracks. They can be mounted on walls or suspended on stems or cables. New Horizons Lighting, Inc., Palm City, FL.

Circle 121



■ **Indirect lighting sconce**

Elliptipar's Ensconce lighting line now includes models for 250- and 400-watt metal halide lamps with remote or integral ballasts in addition to those for halogen and double-ended metal halide lamps. The module features an asymmetric reflector that provides a visually even wash of light across a surface. It lets designers provide indirect lighting from a wall sconce, even at ceiling heights of 10 feet or more. Elliptipar, West Haven, CT.

Circle 122

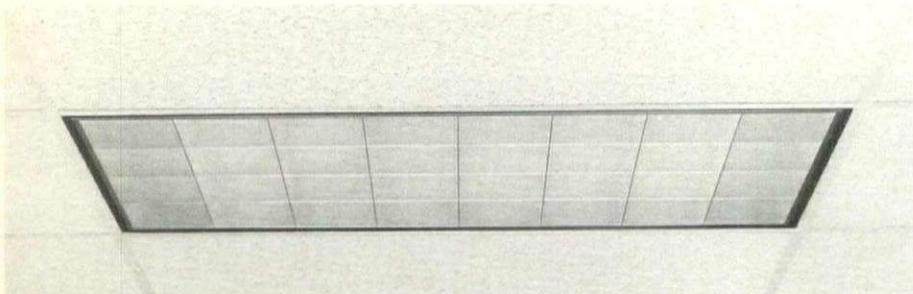
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Circle 26



■ Retrofit louver

Columbia Lighting's Retrolume kit converts lensed fluorescent fixtures to accept deep cell parabolic louvers. The recessed and surface 1-by-4, 2-by-2, and 2-by-4 converters feature aluminum louvers

in a variety of cell configurations and finishes. Columbia Lighting, Spokane, WA.

Circle 123

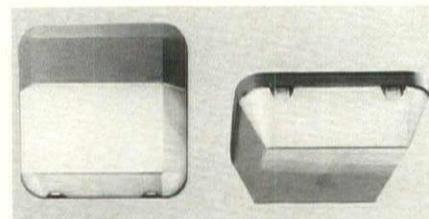


■ Fluorescent task light

The STD-32 twin task light from SPI Lighting distributes more light yet consumes less energy than a 40-watt fluorescent tube, according to its manufacturer. Its steel housing has vacuum-metallized reflectors at each end that are designed to produce asymmetrical light patterns

without glare or reflections. It can be used with standard 120-volt outlets and takes two 13-watt compact fluorescent lamps. SPI Lighting Inc., Mequon, WI.

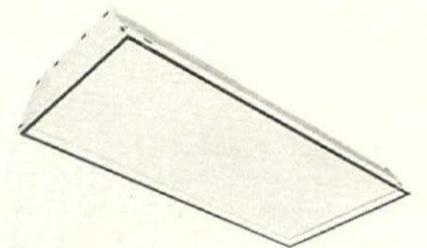
Circle 124



■ Low-level light fixture

Devine Design's DL System Ten luminaire series combines task-oriented optical systems with housings of a common design to maintain consistency for low-level lighting projects. The cast aluminum units feature concealed hinges and latches and have a ribbed back for maximum heat dissipation. The low-glare linear lenticular lenses are formed of injection-molded, UV-stabilized polycarbonate to resist impact and vandalism. A variety of mountings, including pedestal and parapet, are available for all models. The fixtures accommodate incandescent, compact twin-tube fluorescent, and HID sources. The fixtures are suitable for stairways, courtyards, tunnels, parking decks, terraces, and similar locations. Devine Design, Kansas City, MO.

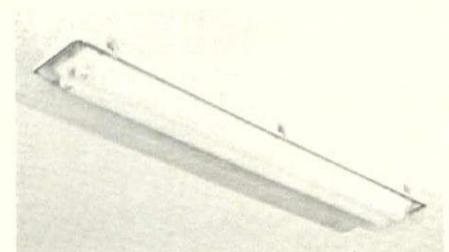
Circle 125



■ Air-handling troffer

H.E. Williams offers the Series EPG-A, a NEMA type G air-handling troffer with a floating door. The standard version features a 1/2-inch-deep recessed aluminum door with a full reveal; a flat door is optional. The doorframe hinges from either side and has fully enclosed, spring-loaded cam action latches. H.E. Williams, Inc., Carthage, MO.

Circle 126



■ Industrial luminaires

H.E. Williams offers Series 86 and 87 industrial luminaires with fully enclosed fiber glass housings. Tension clamp latches hold the acrylic lens in place for relamping without tools. Models are available

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Circle 27

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for one or two rapid start, slimline, or high-output fluorescent lamps; options include a National Sanitation Foundation-listed enclosure and a model for wet locations. H.E. Williams, Inc., Carthage, MO.

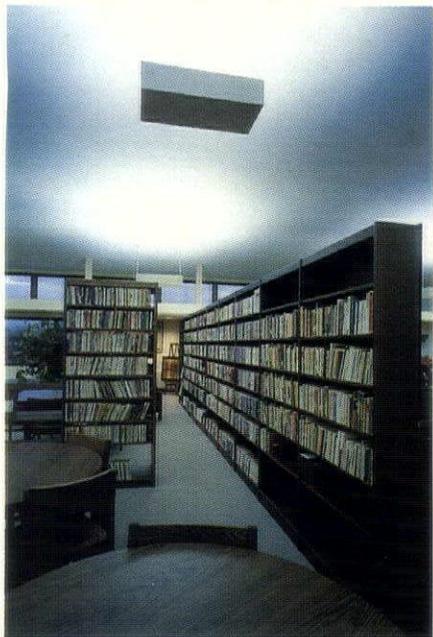
Circle 127



■ Ceiling fluorescent

The series 25-28 fluorescent ceiling fixture from H.E. Williams has a removable cubed white acrylic diffuser and can be surface- or pendant-mounted. A solid oak wood diffuser frame is optional; the wireway cover can be removed without tools. H.E. Williams, Inc., Carthage, MO.

Circle 128



■ HID indirect luminaire

SPI Lighting offers the SDE series of dual-lamp fixtures for economical indirect lighting and good color rendering in spaces with high ceilings. The rectangular, suspended luminaires use a metal halide lamp and a high pressure sodium lamp and have an integral ballast and an enclosed optical assembly with a symmetric or an asymmetric reflector. They can be mounted on ceilings, walls, or display gondolas. SPI Lighting Inc., Mequon, WI. ■

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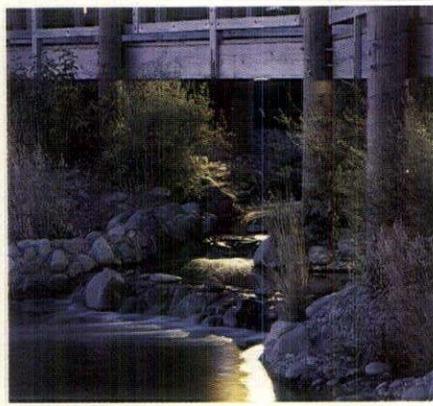
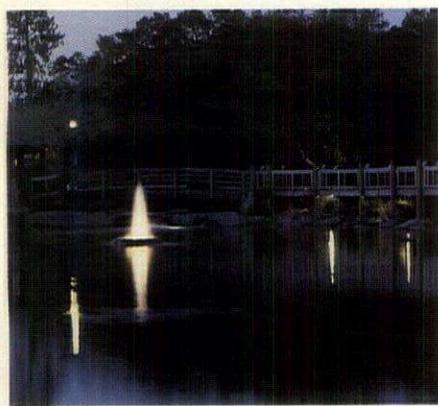
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Circle 30

Problems and potential of lighting lakes and rivers



Light reflecting off water can create astonishing beauty or intolerable glare. The reflection of an attractive lighted object, such as an uplit tree, enhances a waterfront scene. The blazing glare of a directly reflected light source detracts from the view. Tight cutoffs can prevent, or at least minimize, this glare. Careful attention to fixture placement and beam distribution is especially important with high intensity discharge lamps. Two residential developments near Portland, Oregon — one fronting a river, the other encompassing a small lake — demonstrate the problems and potential of landscape and area lighting near water.

Functional night lighting provides safety and security at the Old River Woods community's private marina. The developer, sensitive to landscape concerns, wanted the fixtures to be architecturally integrated with the marina. He wanted the river view from both water and land to be free of glare and other visual interference. That ruled out pole-mounted fixtures, a common choice for outdoor area lighting.

Lighting consultant Cheryl Johnson devised a way to provide safety for the marina walkway and security for the moored boats. The most difficult part of the assignment, she says, was to prevent light trespass into the navigable waterway and intrusion on the view from the opposite riverbank.

Johnson designed an architecturally compatible pedestrian bench that incorporates a floodlight and a power source for the boat slips. The low-profile bench fixtures, mounted on the marina walkway, light only the boat moorage area without affecting

Fixtures light marina, not river channel (top photo). Fountain and bridge at Jenne Lake (middle); waterfall under bridge remains bright in the evening. Uplit ash (bottom) and its reflection in Jenne Lake have become an emblem for the development.

Project: Old River Woods Marina
Location: West Linn, Oregon
Electrical Engineer: OTAK Engineers & Planners
Project: Jenne Lake at Waterhouse
Location: Beaverton, Oregon
Landscape Architect: Wilsey & Ham
Electrical Engineer: Waker & Associates

Client (both projects): BenjFran Development
Lighting Designer: Cheryl L. Johnson, MIES, The Blueridge Agency
Photos: © 1988 Ed Hershberger

the waterway or facing properties. Washes of light from the regularly spaced fixtures illuminate the walkway with a golden glow.

The custom-built bench has a standard 120-volt louvered steplight fixture with a 35-watt high pressure sodium lamp. The combination is durable and energy efficient and promises low maintenance and long lamp life in a wet environment. In addition to the everyday rough treatment that an outdoor fixture can expect, it's even designed to withstand boat tie-ups.

Johnson used more high pressure sodium lighting at Jenne Lake, a private park in the Waterhouse development. "The HPS light source complements the natural landscape colors of the setting," she says. All outdoor fixtures in the park use HPS lamps, except a few in a fountain and a gazebo.

At Jenne Lake, the owner wanted to create a relaxing, nostalgic environment reminiscent of the 1920s. For a nighttime stroll down memory lane, period fixtures mounted on direct-buried fiber glass poles light the way. The fluted poles look like the cast iron poles of yesteryear, but they require no painting or other maintenance.

To further brighten the environment and enhance the residents' sense of security, timer-controlled landscape lighting around the lake includes illumination of a waterfall area under a bridge. Instead of becoming a pit of spooky shadows, the waterfall remains a pleasant view at night, thanks to 35-watt floodlights hidden under the bridge. A nearby fountain is lit by 500-watt quartz underwater fixtures.

Another key visual element at Jenne Lake is an ash tree on its own tiny island. The tree, which was growing on the same spot long before the lake was built, survived the inundation and appears to be thriving. At night, three surface-mounted floodlights make the tree and its reflection visible from every direction. Underwater PVC conduit brings power to the island without visual interruption of the lake scene. The glowing ash tree at night — an image created entirely by landscape lighting — has become an emblem of the Waterhouse development.

—G.F.

For product information, see Manufacturers on page 62. Products for landscape and area lighting applications are displayed on pages 40-49.

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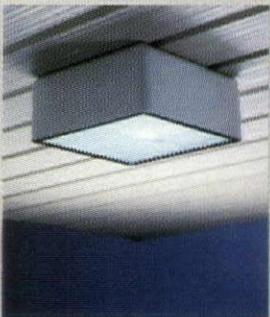
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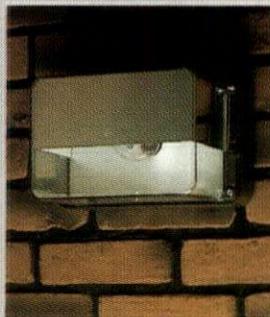
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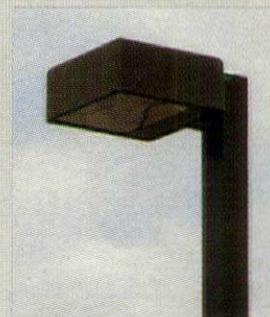
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■ Custom area lighting

TrimbleHouse designed and manufactured the area luminaire shown here for Shelter Cove at Hilton Head, South Carolina. The energy-efficient luminaire produces controlled light with a sharp cutoff for maximum performance and improved vertical illumination. Pole spacing can be in excess of three times the mounting height with uniformity ratios below 10 to 1. TrimbleHouse, Norcross, GA.

Circle 130



■ Custom-made bollard

Ryther-Purdy makes custom bollards to individual design specifications. The one shown is of kiln-dried western red cedar, which resists insects and decay. The wood can be stained or left to weather to a silver gray. The bollard comes in pedestal-mounted and direct-burial models, most of which accommodate an incandescent, fluorescent, or low-wattage HID source. Ryther-Purdy Lumber Co., Inc., Old Saybrook, CT.

Circle 131



■ Outdoor HID lighting

The Grande Jefferson luminaire from Hanover Lantern is constructed of cast aluminum. A bracket arm of heavy-duty aluminum tubing is welded to the luminaire's roof to form a one-piece unit. The hinged cage has removable panels of clear UV-stabilized, prismatic polycarbonate. Models are available for HID and incandescent lamps; refractors and reflector systems are optional. Hanover Lantern, Hanover, PA.

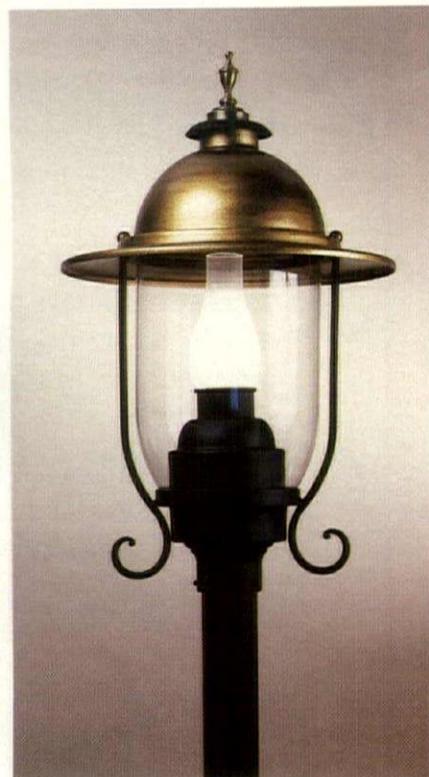
Circle 132



■ Wall, ceiling luminaire

Poulsen Lighting's Orbiter extended wall/ceiling luminaire has a cast aluminum housing and a clear glass enclosure; an antiglare shield surrounds the light source. The wall-mount model has a 19 1/2-inch extender arm and a flat steel reflector ring; the ceiling model comes without a reflector ring. Both models take incandescent lamps, up to 100 watts for the wall-mount model and 75 watts for the ceiling model. The company recommends clear A19 lamps. Poulsen Lighting, Inc., Miami, FL.

Circle 133



■ Outdoor area lighting

The Nob Hill outdoor area luminaire has hand-forged side arms and a white or clear lens. The top frame is treated with a natural compound finish in a choice of four colors. Old World Lighting, division of RWL Corporation, Solvang, CA.

Circle 134

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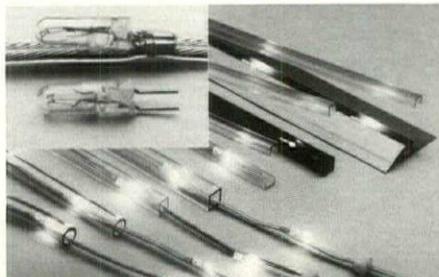
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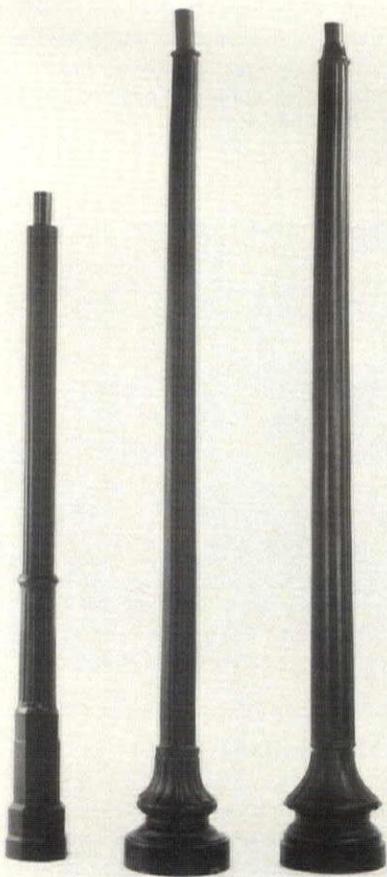
Circle 32



■ **Directional fixtures**

Luma Lighting's Newport and Balboa cast-aluminum directional fixtures have an air space between the outer body and the inner lamp housing that helps cool the fixture, according to the manufacturer. Other features include a tempered lens and a cast-aluminum swivel with a lock knob. The fixtures can be mounted to an outlet or transformer box, or they can be stake-mounted if connected to a two-circuit low-voltage distribution system. The Newport takes an MR16 lamp, the Balboa an MR11 lamp. Luma Lighting Industries, Inc., Orange, CA.

Circle 135



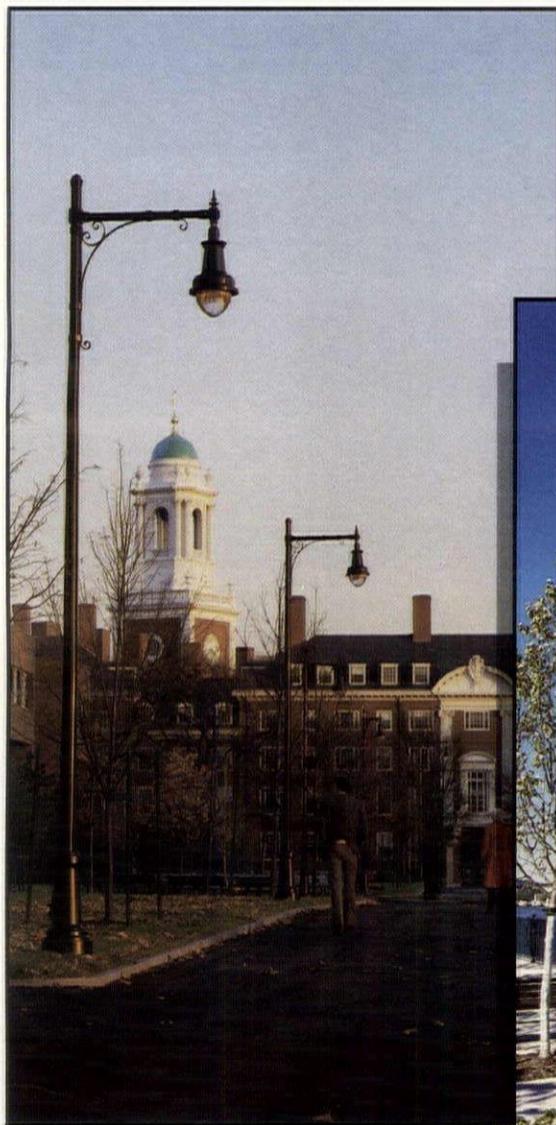
■ **Decorative poles**

Emco's decorative aluminum light poles with fluted sides come in several styles. Heights for some styles range from 8 to 12 feet, for others from 10 to 16 feet. Emco Environmental Lighting, Milan, IL.

Circle 136



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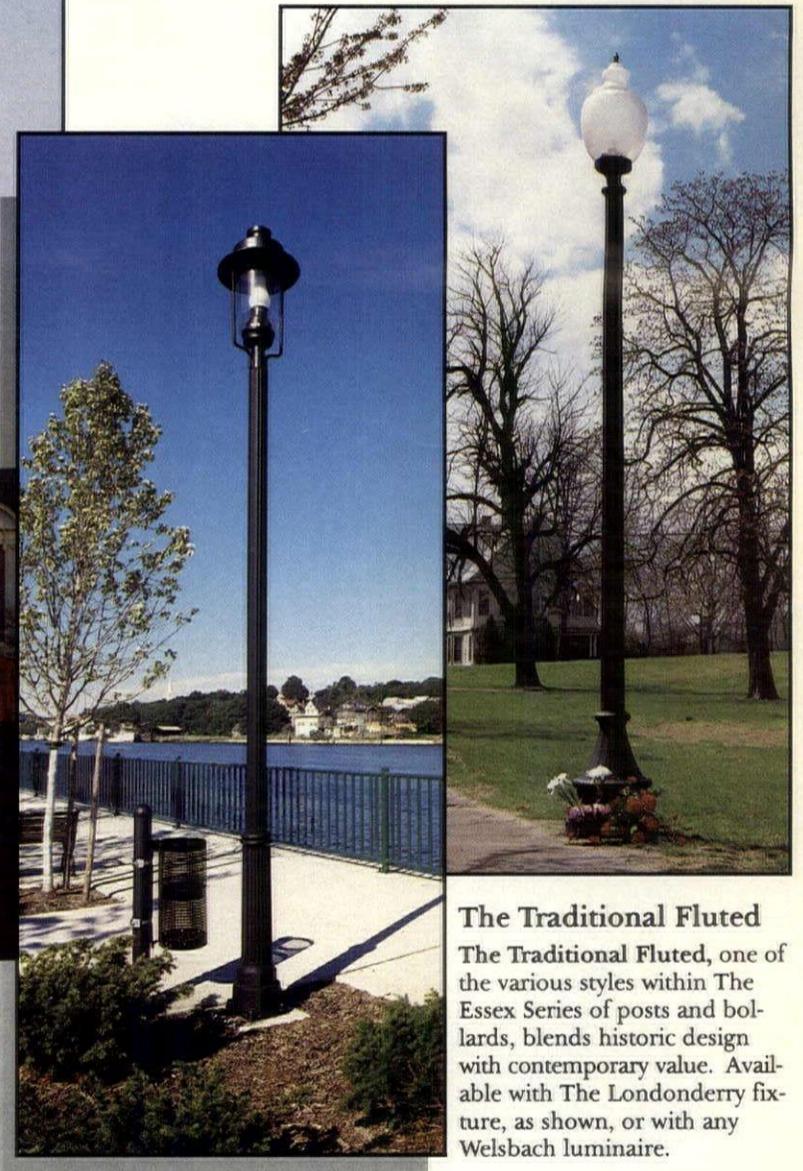
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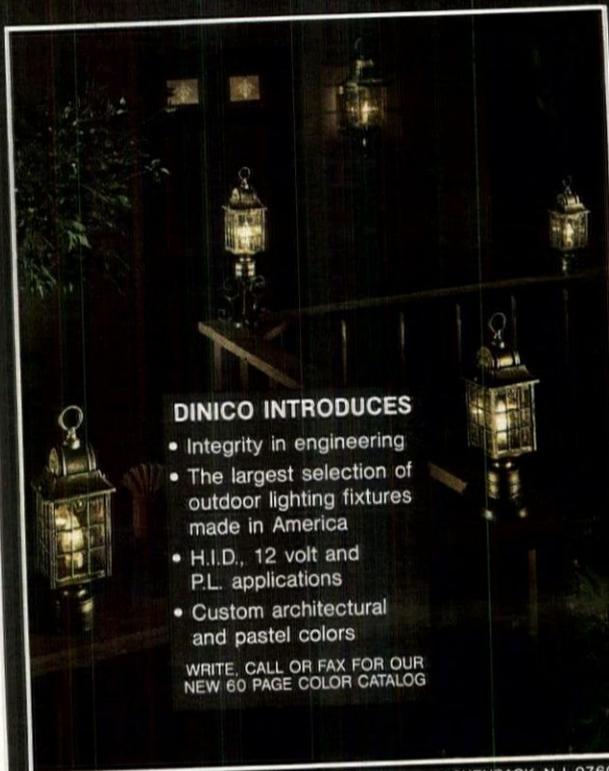
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Circle 35

■ Landscape lighting chart

A compact slide chart from Nightscaping provides key installation information on landscape lighting fixtures and applications. Areas covered include backlighting, uplighting, downlighting, and path, specialty, and underwater lighting. Data include low-voltage lamp characteristics, wattages, wire sizing, and comparisons of lumens for line- and low-voltage lamps. Nightscaping, division of Loran, Inc., Redlands, CA.

Circle 137

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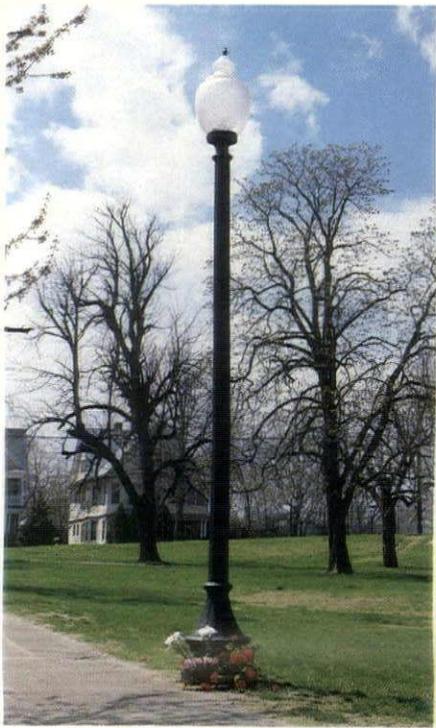
Circle 36



■ HID bollards

McGraw-Edison offers bollards for locations where low mounting heights are preferred. The seamless, heavy-duty aluminum bollards are gasketed to seal out external contaminants. A truncated octagonal collecting reflector above and dispersing reflector below produce efficient, low-glare illumination from height as low as 24 inches. The remote ballast assembly contributes to cool operation and long ballast life. McGraw-Edison, Vicksburg, MS.

Circle 138



■ **Cast-iron post**

The fluted sides and decorative 21-inch-diameter base of RWL's Columbia post are reminiscent of styles from the early 1900s. The cast-iron post accepts any of the company's outdoor luminaires — including the Parklane II in the photo — in single or multiple configurations. RWL Corporation, New Haven, CT.

Circle 139



■ **HID floodlighting fixture**

The Standard Electric Fixture Co. offers the WS high intensity discharge floodlighting fixture for 70- and 150-watt double-ended metal halide quartz lamps. The fixture has a versatile swivel arm and is available in a bronze finish with either 120- or 277-volt ballasts. Options include tamper-proof screws and photocells for automatic day and night on-off control. A model for high pressure sodium lamps is also available. Standard Electric Fixture Co., Inc., Miami, FL.

Circle 140

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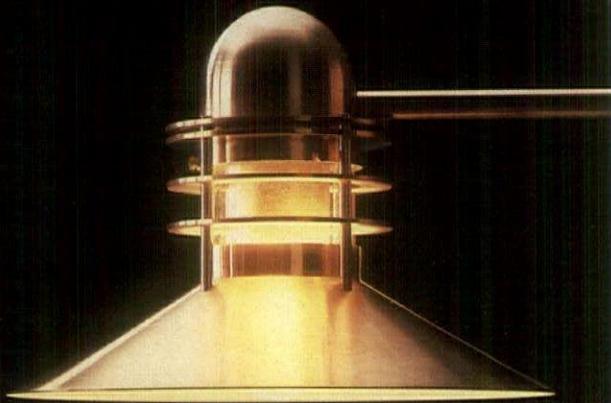
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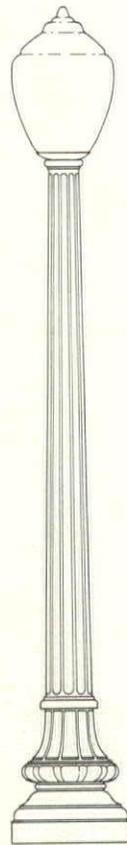
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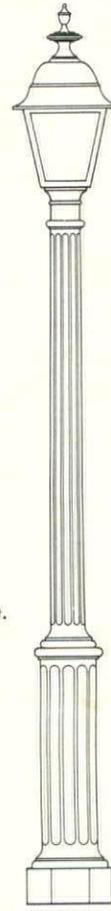
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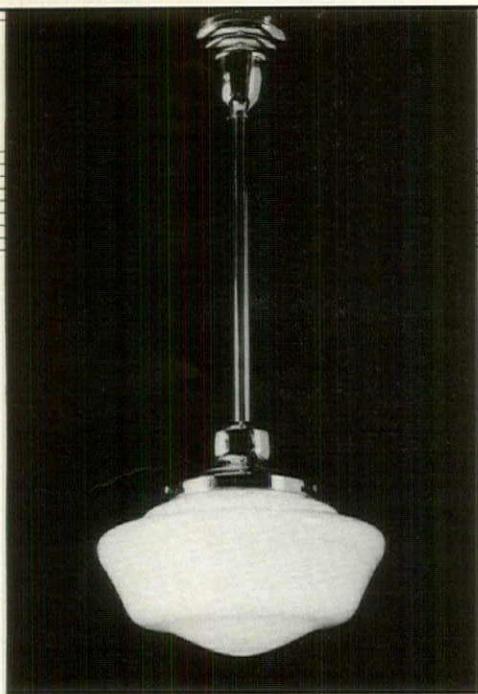
Circle 40



■ Decorative lantern

ELA's cast aluminum Vienna lantern can
be mounted on posts or walls. The small
version has a glass bowl that encloses a
cluster of three 60-watt lamps. The two
larger sizes have acrylic bowls and five-
candle clusters; they can be converted to
accept some HID sources. Environmental
Lighting for Architecture, Inc., City of In-
dustry, CA.

Circle 141



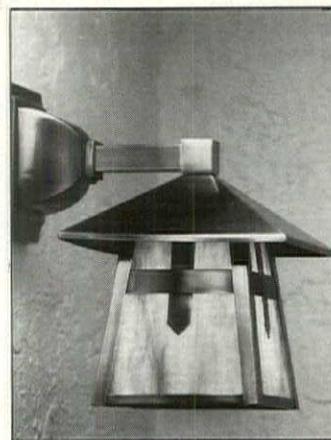
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Circle 41



■ Traditional-style standard

Ryther-Purdy's traditional Type T lighting
standard has a rustic appearance and is
built of western red cedar. It comes in
heights from 14 to 40 feet and in sizes 7,
9, and 10 inches square. Various arm
lengths are offered, all adaptable to any
luminaire. Ryther-Purdy Lumber Co.,
Inc., Old Saybrook, CT.

Circle 142

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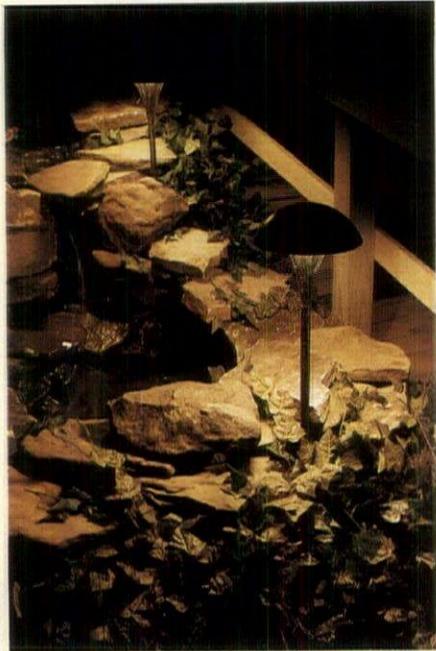
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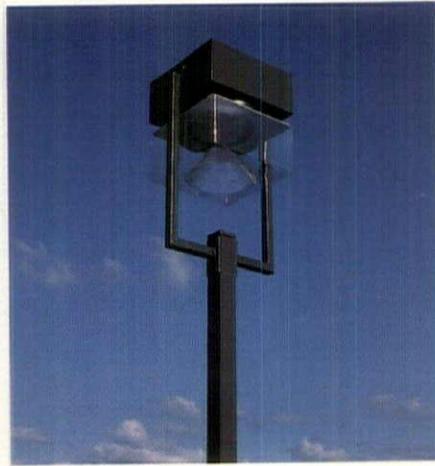




■ Landscape lighting

Hadco's Night Life collection of cast aluminum landscape lighting fixtures includes the Mushroom, shown here. It comes in three sizes and is available in low- and line-voltage models. Hadco, Littlestown, PA.

Circle 143



■ Area luminaire

Holophane's ParkLane area luminaire has a prismatic borosilicate glass reflector with a metallized rear surface, an optical system that eliminates the need for refractors or a large number of fixtures, according to the manufacturer. A clear one-piece prismatic cube-cone of seamless acrylic provides low-brightness definition, eliminates hot spots and dark holes, and offers optimum horizontal light cutoff. The pole- or wall-mounted luminaire accommodates a vertically burning HID lamp. Holophane, Newark, OH.

Circle 144



■ Outdoor area luminaire

The Aktra III architectural outdoor area luminaire from Wide-Lite has a polycarbonate secondary lens for a softly glowing security light from high pressure sodium or metal halide lamps. The high-efficiency reflector system's cutoff distribution restricts glare and spill light. A hinged top allows full access for easy relamping and maintenance. Wide-Lite, San Marcos, TX.

Circle 145



■ Concrete light poles

CPI Concrete Products offers prestressed concrete light poles up to 65 feet high in 14 colors and exposed aggregate finishes. The colors are cast throughout the concrete for a permanent maintenance-free finish that requires no paint and neither peels nor rusts. CPI Concrete Products, Memphis, TN.

Circle 146



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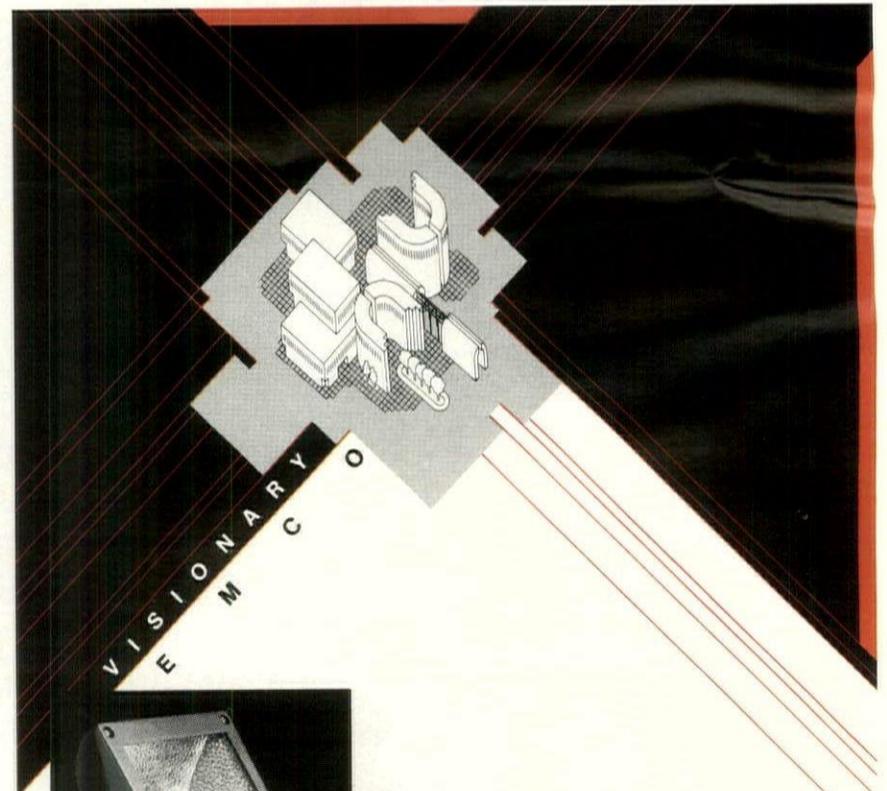


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Circle 44



■ **Period lamppost**

Classic Lamp Posts offers the W9, a poly-steel Washington lamppost and a poly-ethylene acorn globe. The post has a double-fluted base and a tapered shaft, and comes in heights of 7 and 9 feet. Classic Lamp Posts, Miami, FL.

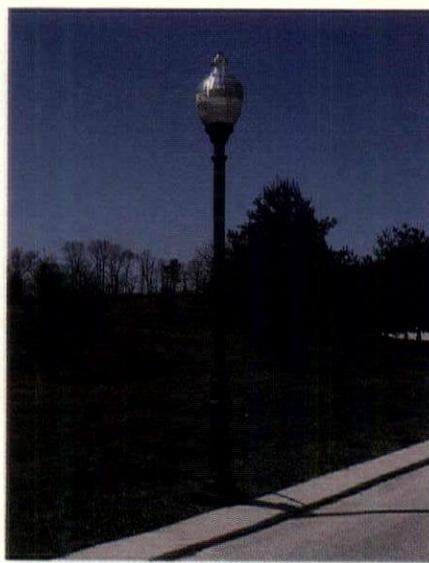
Circle 147



■ **Outdoor lanterns**

ELA's cast aluminum Pageant lantern has a hinged hood for easy relamping. The one-piece dome on the hood comes in opal or clear glass; a metal dome is optional. The lantern is available in three sizes and comes with a cluster of three or five 60-watt incandescent candle lamps; the two larger sizes are adaptable for HID sources. Environmental Lighting for Architecture, Inc., City of Industry, CA.

Circle 148



■ **Area lighting**

Hadco's Victorian II luminaire produces a Type III light distribution pattern with an Alzak aluminum reflector and a prismatic refractor globe of UV-stabilized polycarbonate. The cast-aluminum fixture base is coated with a thermoset powder coat finish. HID lamp options and matching pole assemblies are available. Hadco, Littlestown, PA.

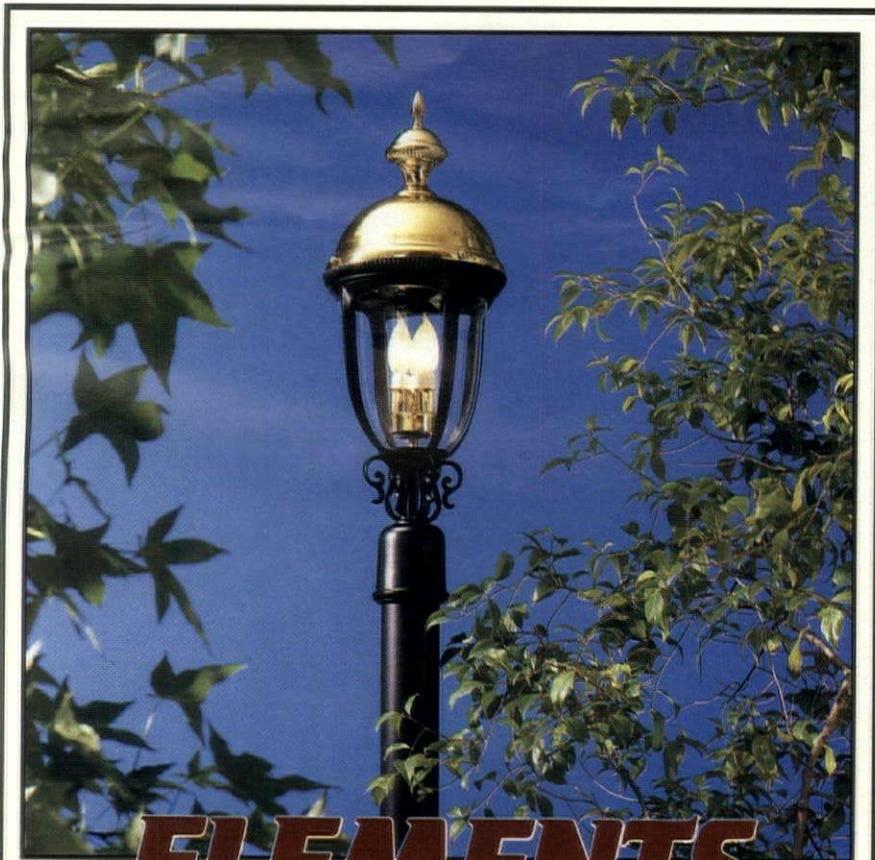
Circle 149



■ **Copper wall-mounted luminaire**

The PH extended wall-mounted luminaire from Poulsen Lighting is crafted of pure untreated copper that will develop a verdigris patina outdoors. The wall plate and lamp holder assembly are fabricated from heavy-gauge solid copper-plated brass. Inner reflecting surfaces are finished in baked matte white enamel. The luminaire uses an incandescent lamp up to 100 watts. Poulsen Lighting, Miami, FL.

Circle 150



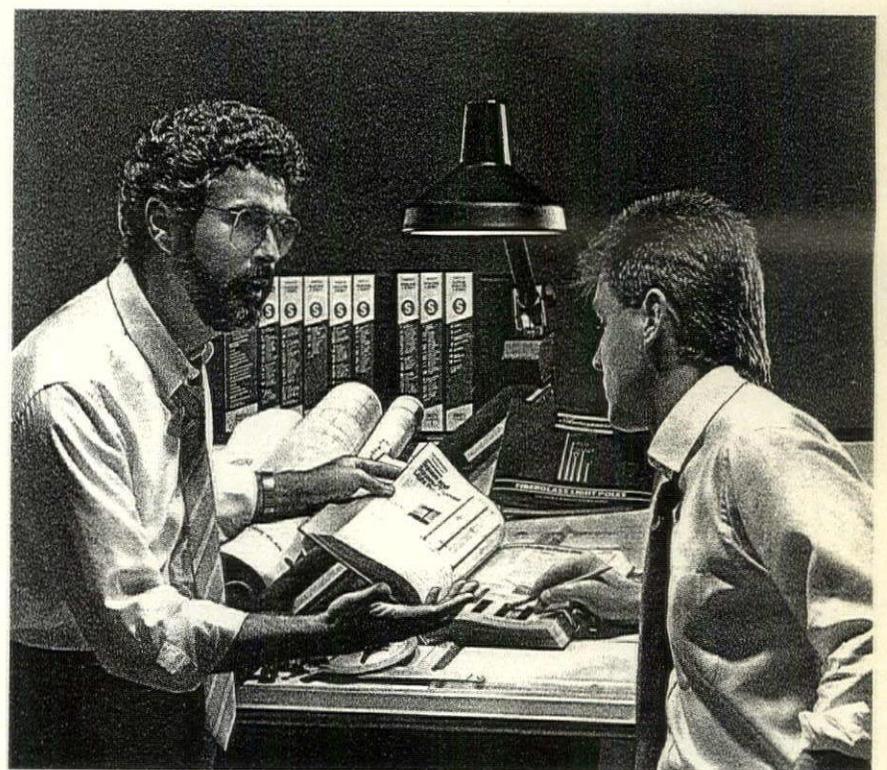
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Circle 45



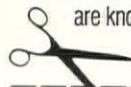
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Circle 46

A/E headquarters shows off lighting technology

Anderson DeBartolo Pan, a Tucson architectural engineering firm, pulled out all the stops when designing headquarters for its own staff. The building shows off ADP's design expertise and serves as an operating laboratory of energy conservation techniques. Lighting designer John Jolly specified a comprehensive array of components to illuminate the 50,000-square-foot building and its site.

For Jolly, lighting design begins with lamps. "If you want to stay on the leading edge of technology, you have to keep up with lamps," he says. "Then, the fixture needs to be designed around the lamp, and it needs a good quality ballast. When comparing light sources, you need to look at the total efficiency of the system — lamp, ballast, fixture, and lens — to see how efficient that whole combination is in getting the light where you need it."

The ADP headquarters interior is lit almost exclusively with energy-saving fluorescent sources that have a high color rendering index (CRI). The open office areas use 32-watt T8 lamps in air-handling troffers with deep cell parabolic louvers. All troffers have energy-saving core-and-coil ballasts. Both desk-mounted task lights and recessed downlights use compact fluorescents. The downlights remain on after hours to provide emergency and security illumination, as well as architecturally attractive night lighting.

The warm 2700K compact fluorescents have a CRI of 81 and complement the somewhat cooler 3000K, 75 CRI lamps in the troffers. Both offer much more flattering light than the all-too-common 4100K, 56 CRI cool whites; Jolly calls them "cruel whites." As part of the ADP team, Jolly acquired samples of the specified lamps so that other designers could evaluate interior finishes in their light.

The firm's boardroom has a coffered indirect fluorescent system.

Compact fluorescent task lamps supplement two-lamp troffers (top). The boardroom (middle) has a versatile combination of sources. After hours, a control system douses most of the lights seen in bottom photo.

Project: Anderson DeBartolo Pan corporate office headquarters
Location: Tucson, Arizona
Architects and Engineers: Anderson DeBartolo Pan
Lighting Designer: John Jolly, Anderson DeBartolo Pan

Cool-beam PAR 38 and low-voltage MR16 lamps are used in adjustable downlighting that provides a rare touch of incandescent sparkle and versatility. The fluorescent fixtures are separately switchable to provide three light levels, and the incandescent lights are independently dimmable on two circuits.

The building's lighting, office communication, security, heating, and cooling systems are all tied into a central computer for energy-efficient operation. A power line carrier system injects lighting control signals into the 277-volt power distribution lines. Some minor additional wiring was required, however: "jumpers" transmit control signals to 120-volt task lights.

After regular working hours, the system automatically sweeps the building at three-hour intervals, turning off all lights except preprogrammed night lighting. "We have one of the low-cost systems," Jolly admits. "If you're in the building at night, suddenly you hear clicks and the lights go out. Then you have to go to a wall switch to reactivate the lights in your area." In his current projects, Jolly is specifying more sophisticated systems — such as low-voltage multiplex systems that blink the lights to remind building users to dial a local override on a touch-tone phone.

Other energy-saving features at the headquarters include passive daylighting design along with photocell switching controls for fixtures adjacent to windows. Site lighting is controlled on two circuits, both photocell-activated at dusk. A preset controller turns off part of the parking lot lighting at the end of the CADD late shift; the remaining lights stay on until the photocell detects dawn.

"Before specifying a new system or component, I always do a life-cycle cost analysis to see what the payback is," Jolly concludes. "If savings pay for a system within three or four years, it's usually worth the money — especially with energy costs going up. I have to throw in product life, too: if a part pays for itself in five years, but its average life is five years, I'd look again."

—G.F.

For product information, see Manufacturers on page 62. Lighting components and accessories are displayed on pages 52-58.



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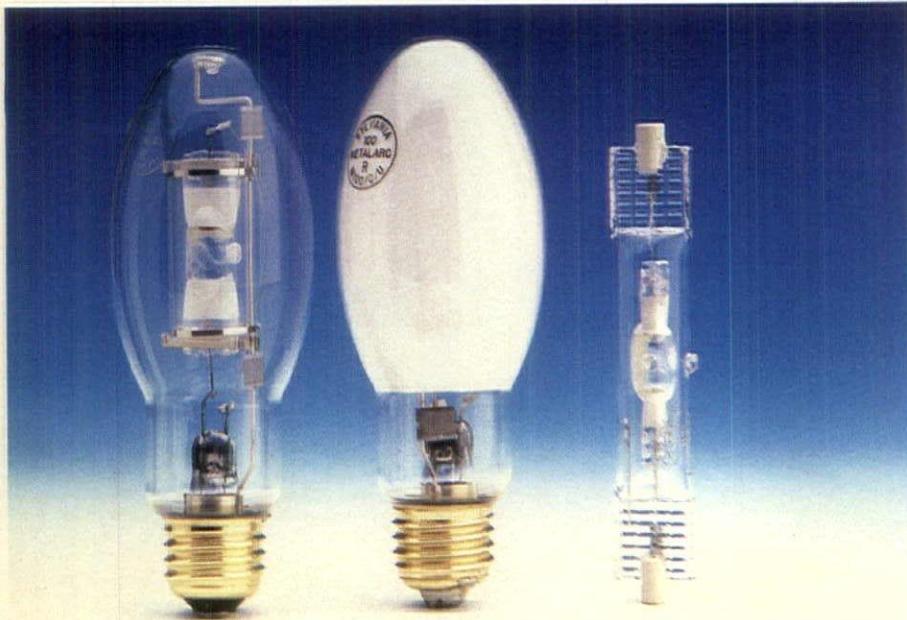
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Components and accessories

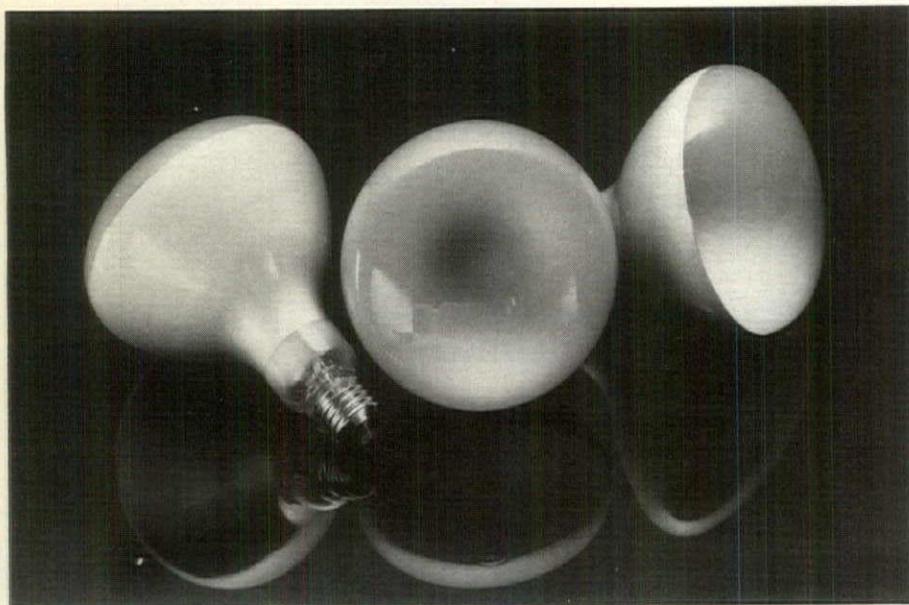


■ Metal halide lamp

GTE's 100-watt Sylvania Metalarc lamp now has an average rated life of 10,000 hours. The lamp comes in clear and coated versions with a medium screw base and can be burned in any position. Its compact size permits its use in smaller fixtures and in applications with low to

medium ceiling heights. The lamp has a 3200K color temperature and a color rendering index of 65. A tubular, double-ended model is also available. GTE/Sylvania, Danvers, MA.

Circle 160



■ Reflector lamps

Pro-Arc metal halide reflector lamps from Venture Lighting International have a universal burning position and come in four sizes. The lamps' average life ranges from 5000 hours for the 70-watt lamp to

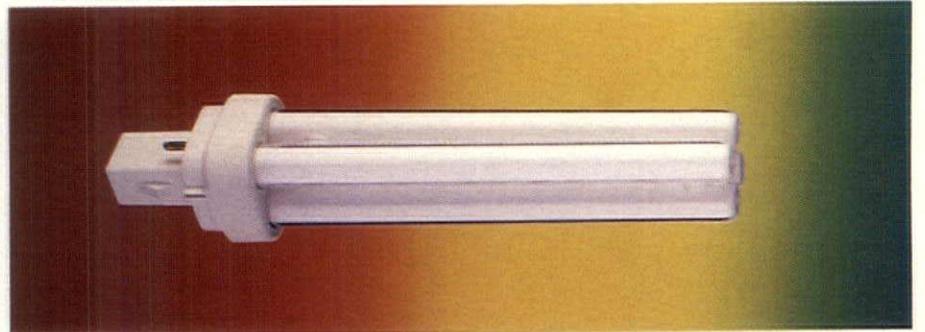
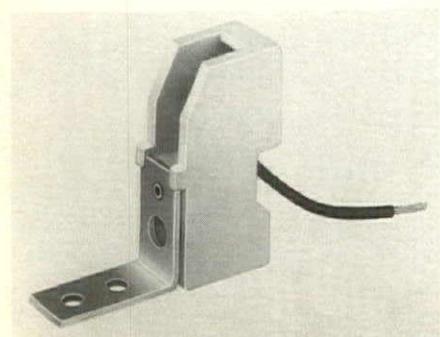
20,000 hours for the 400-watt lamp. Venture Lighting International, Cleveland, OH.

Circle 161

■ Lamp holders

Leecraft now offers its Series MLH high intensity lamp holders for RSC-base metal halide, halogen, and high pressure sodium lamps. Available as single-ended units with or without mounting brackets, they can also be custom manufactured as double-ended assemblies. Leecraft Manufacturing Co., Inc., Long Island City, NY.

Circle 162



■ Quad-tube fluorescents

PLC* quad-tube compact fluorescent lamps from Philips Lighting come in two diameters and have a starter in the base. They are said to be four times more energy-efficient than comparable 40- to 100-watt incandescent lamps and last up to 10 times longer. All have a color rendering index of 82 and a color temperature of 2700K. The 10-millimeter

models come in wattages from 10 to 26 and offer greater point-source control than the shorter 14- and 20-watt 15-millimeter lamps, which produce a more diffused light. Philips Lighting Company, Somerset, NJ.

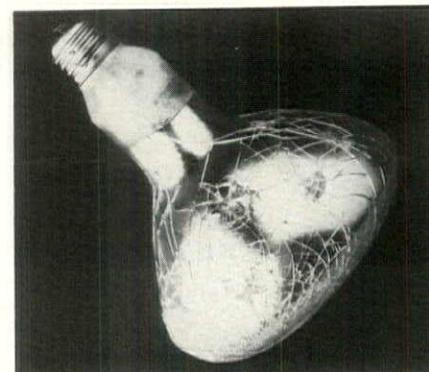
Circle 163



■ Edge-lit exit sign

Alkco's Edge-Glo edge-lit exit sign features concealed fasteners on the panels and faceplate, polished panel edges, cleanly routed letters, and a satin-finish brushed aluminum separator panel. Color-enhanced T5 fluorescent lamps are available so that signs can match general room light sources. Options include a battery pack and various color combinations. Alkco, Franklin Park, IL.

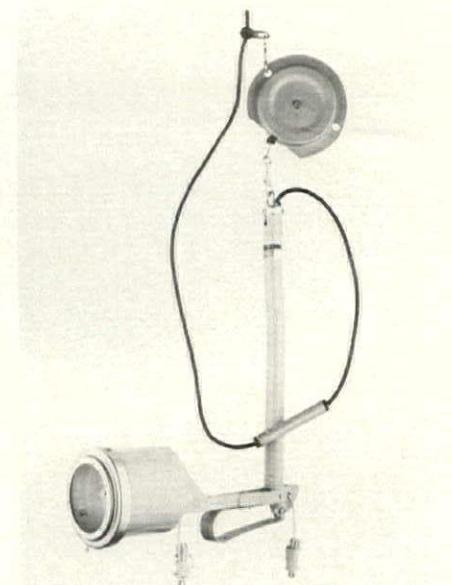
Circle 164



■ Shatterproof lamp

The Teflon coating on Shat-R-Shield's infrared heat lamps protects the surroundings from shattered glass. Virtually all glass remains inside the coated envelope if the lamp is broken by accident or thermal shock, according to the manufacturer. Shat-R-Shield, Inc., Shrewsbury, NJ.

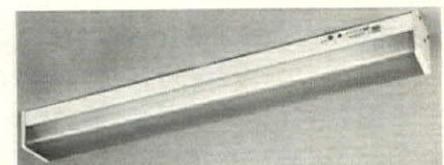
Circle 165



■ Dock light

Phoenix Products offers an overhead truck and rail loading dock light with a protective Lexan polycarbonate lens. The high pressure sodium unit is recommended for use in the food processing industry and other locations where glass fragments could be a problem. Phoenix Products Co., Inc., Milwaukee, WI.

Circle 166

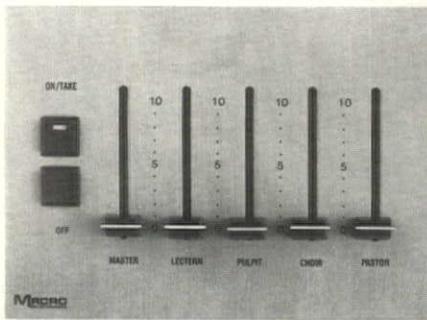


■ Fluorescent emergency light

A dual-purpose fluorescent emergency fixture from Lightalarms Electronics incorporates emergency lighting and area lighting into a single unit. The Series FFAM fixture's high-efficiency battery pack comes complete with inverter, charger, and sealed nickel cadmium battery to provide 90 minutes of emergency

power to one lamp in a fixture. The tamper-proof, vandal-proof fixture is suitable for stairwells, halls, and bathrooms. Lightalarms Electronics Corporation, Baldwin, NY.

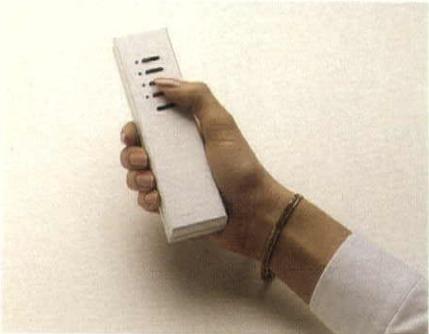
Circle 167



■ Dimmers

Macro Electronics' PDQ dimmers for incandescent, fluorescent, and low-voltage lighting have been designed for quick layout and installation. The flush-mount panels have an on-off switch and up to six slide controllers for intensity adjustment. They come in units with one to four gangs in a choice of finishes. The high-power dimmers are available for load capacities up to 5000 watts. Macro Electronics Corporation, Austin, TX.

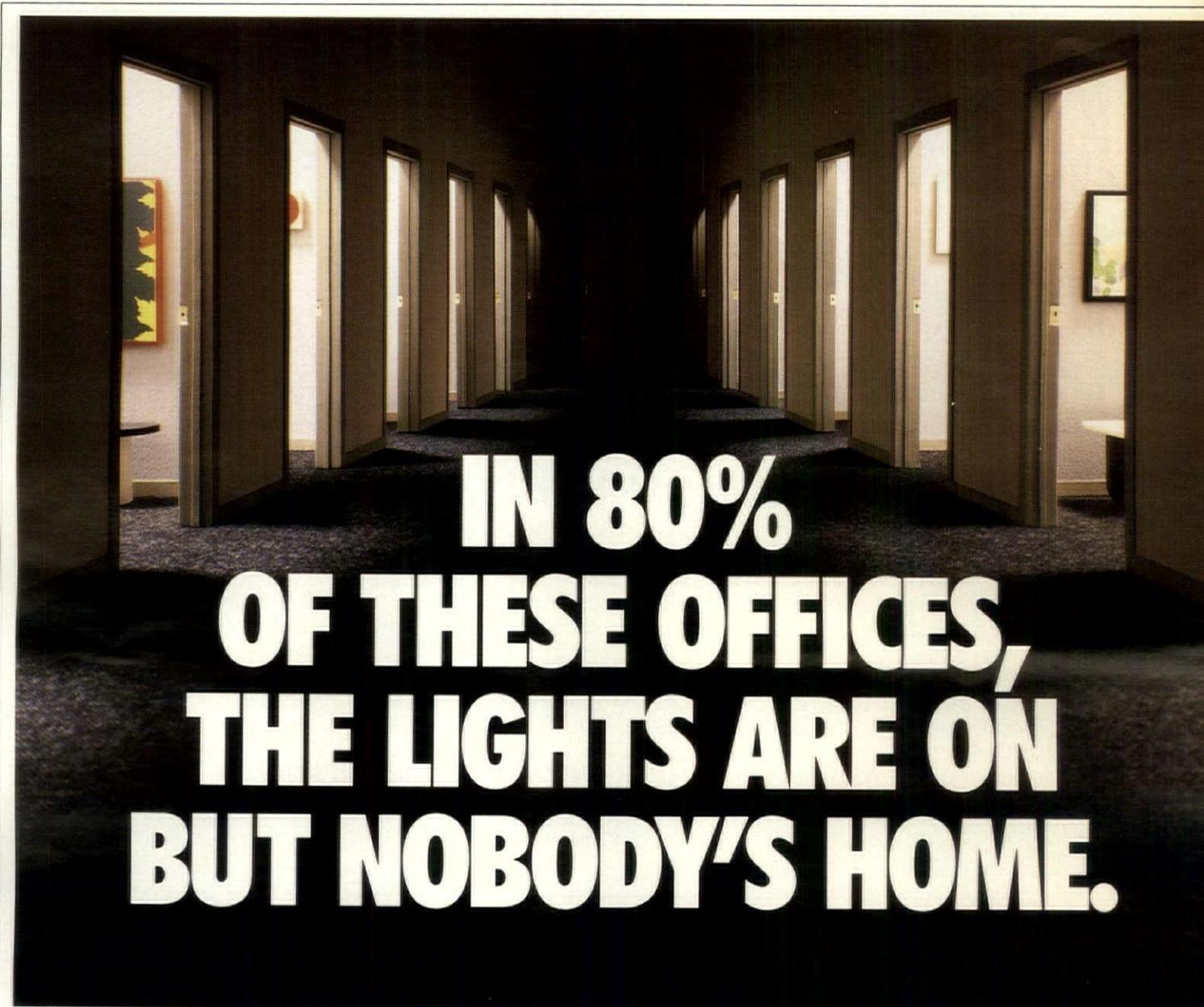
Circle 168



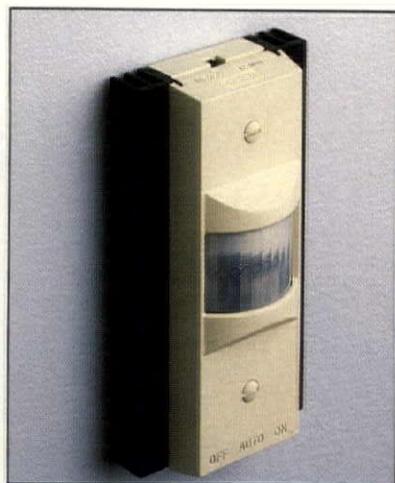
■ Wireless remote control

Lutron's infrared wireless remote control accessory for the Grafik Eye preset dimming control can be used up to 50 feet from the nearest wall- or ceiling-mounted receiver. Four touch-buttons correspond to preset lighting scenes, and a fifth turns the system off. An LED indicator lights when a scene is activated. Identical systems can be used in adjacent rooms without interference. Lutron Electronics Co., Inc., Coopersburg, PA.

Circle 169



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Wiring Device Division

Circle 48

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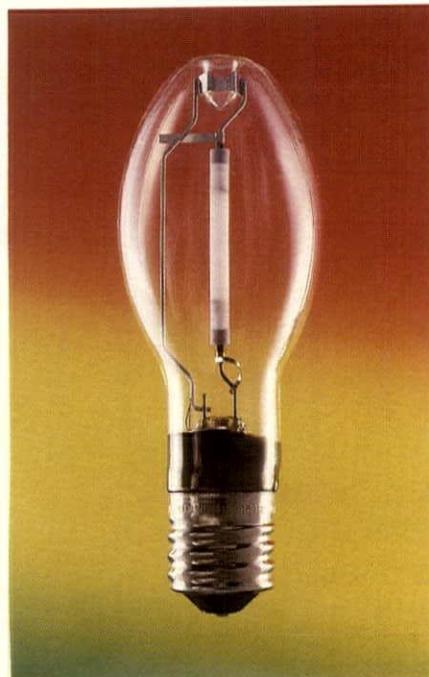
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■ HPS lamps

Ceramelux high pressure sodium lamps from Philips Lighting are designed to operate uniformly during their entire life cycle. Features include a thick arc-tube end seal, a braze-covered electrode rod, a voltage-controlling emitter material, and a nickel-plated brass base. The arc tube structure has positive centering supports at both tube ends to maintain arc tube alignment and reduce potential weld breaks under vibration. Philips Lighting Company, Somerset, NJ.

Circle 170



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- Maximum Savings

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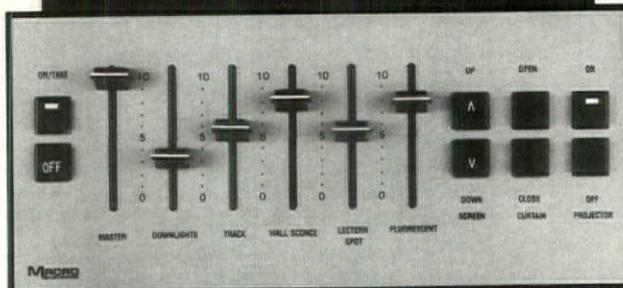
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Circle 50

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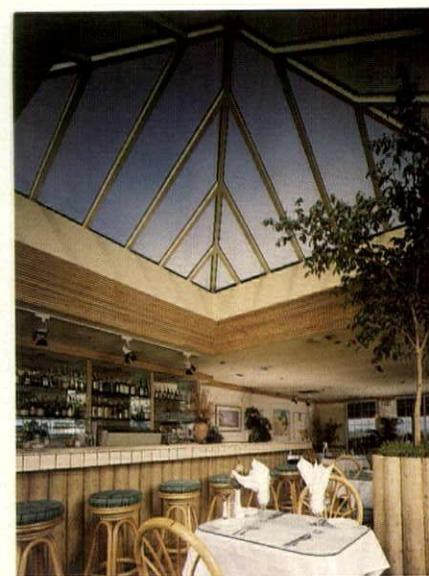
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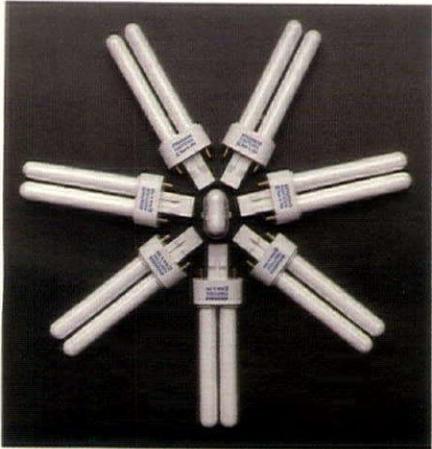
Circle 51



■ Structural skylights

Bristolite structural skylight designs feature custom-extruded members of architectural-grade aluminum alloys. Structures are welded or bolted together. Glass, acrylic, fiber glass, and polycarbonate glazings are available. Stainless steel fasteners and extruded silicone gaskets make designs leakproof, according to the manufacturer. The frames come in a variety of painted and anodized finishes. Bristolite Skylights, Santa Ana, CA.

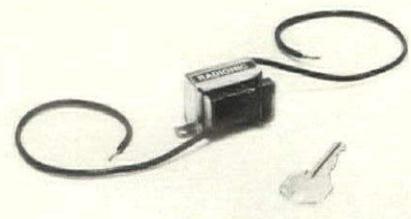
Circle 171



■ **3500K compact fluorescents**

GTE now offers Sylvania compact fluorescent lamps with a color temperature of 3500K. The lamps are intended to help lighting designers and specifiers provide consistent color in offices and retail stores, where 3500K lamps are growing in popularity for general fluorescent lighting. The new color is available in three sizes. GTE/Sylvania, Danvers, MA.

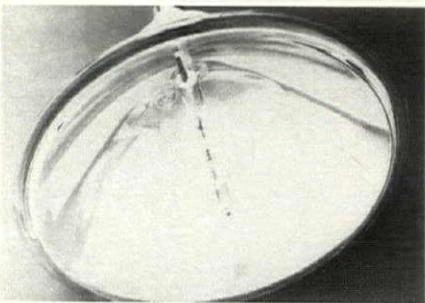
Circle 172



■ **Miniature ballast**

Radionic Industries has introduced a miniature ballast that operates 6- to 9-watt T5 and compact fluorescent lamps. Its small size — slightly more than 1 inch square — suits the ballast for use in compact fixtures and areas with limited space. Radionic Industries Inc., Chicago, IL.

Circle 173



■ **Metal halide PAR lamp**

Osram's Metallogen HMI 1200-watt PAR metal halide lamp for stage and studio lighting has an arc gap shorter than those in earlier stage and studio lamps, yielding up to 30 percent higher luminance efficiency, according to the manufacturer. The 5600K lamp's 90+ color rendering index remains constant for the lamp's life. Osram Corporation, Newburgh, NY.

Circle 174

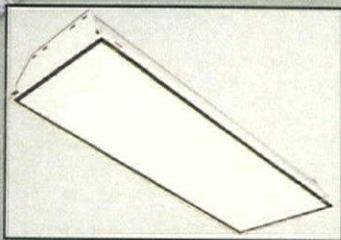


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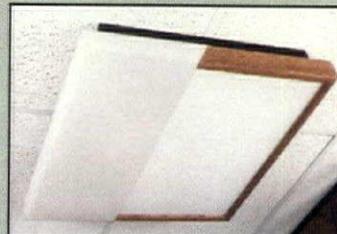
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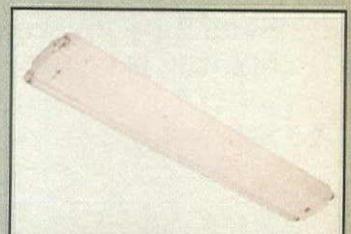
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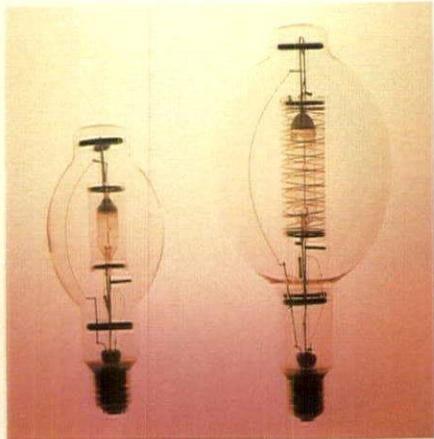


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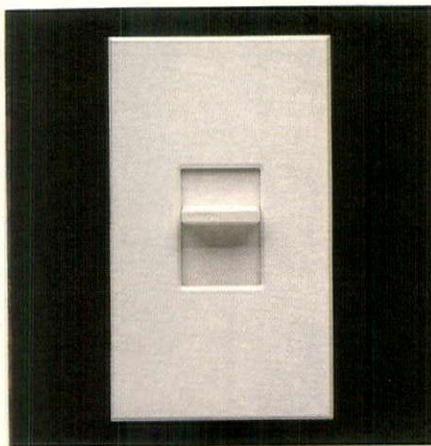
Circle 52



■ **Open-fixture metal halide lamps**

GTE's 400- and 1000-watt Sylvania Metalarc lamps have been improved to reduce the possibility of the outer jacket shattering if the arc tube ruptures. Although the company continues to recommend enclosure of all metal halide lamps, these lamps can be used where enclosing the lamp is impractical. They operate in a vertical burn position and come in clear and coated versions. The 400-watt lamp is also available in a high color rendering 3000K coated version. GTE/Sylvania, Danvers, MA.

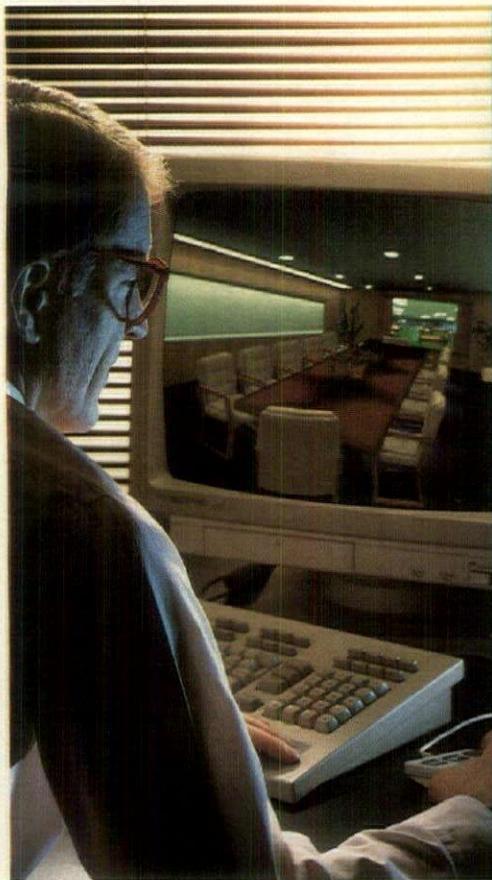
Circle 175



■ **Low-voltage dimmer**

The Nova T-Star NTEVL-300 dimmer from Lutron Electronics can control low-voltage fixtures with electronic transformers and combination systems with low- and line-voltage incandescent fixtures. Features include protection from circuit overloads and short circuits. Lutron Electronics Co., Inc., Coopersburg, PA.

Circle 176



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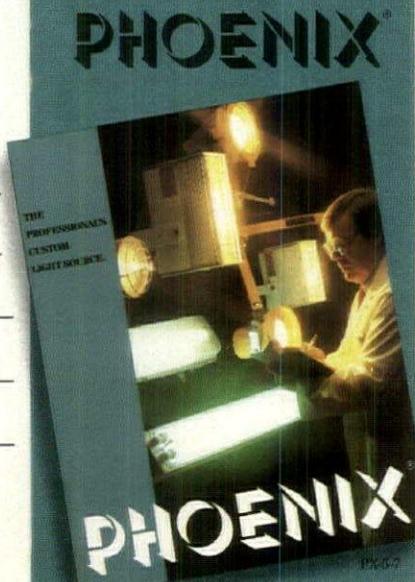
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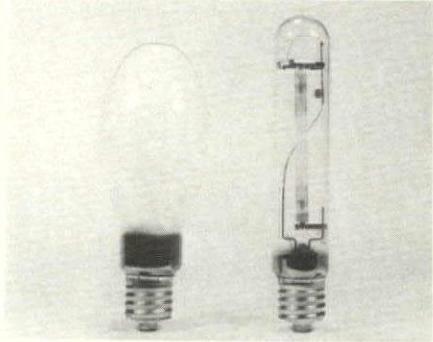


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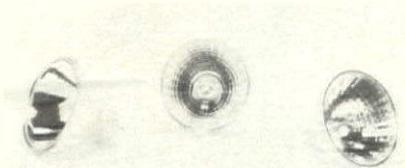
Circle 54



■ **HPS lamps**

Osram's HPS Super lamps offer 22 percent higher lumen efficacy than do standard high pressure sodium lamps, according to the manufacturer. They can be used in existing fixtures with appropriate igniters. Versions are available with clear or coated envelopes in wattages from 70 to 400. Osram Corporation, Newburgh, NY.

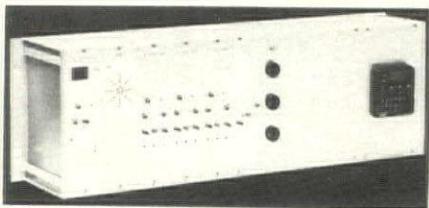
Circle 177



■ **MR16 lamps**

MR16 tungsten halogen lamps from Osram Corporation are highly efficient low-voltage sources with excellent color rendition for display lighting of heat-sensitive products. Their multifaceted dichroic reflectors direct heat to the rear of the fixture, lowering beam temperature; their color temperature is 3000K, and average rated life is 2000 hours. The 75-watt model has a 450-degree Celsius pinch temperature limit, designed to reduce contact problems. Osram Corporation, Newburgh, NY.

Circle 178



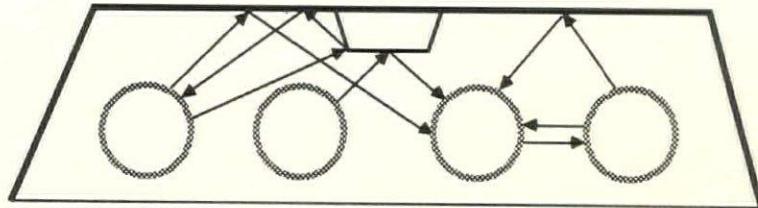
■ **Automatic shade controller**

AM Source International's Otto-Matic shade control automatically raises, lowers, opens, and closes individual window coverings from a central location; a command module can tilt blind slats according to the season and to the sun's elevation. Other features include a fire alarm tie-in, local override switches, and a time module that raises and lowers blinds at preset times for added security. AM Source International, Wauconda, IL.

Circle 179

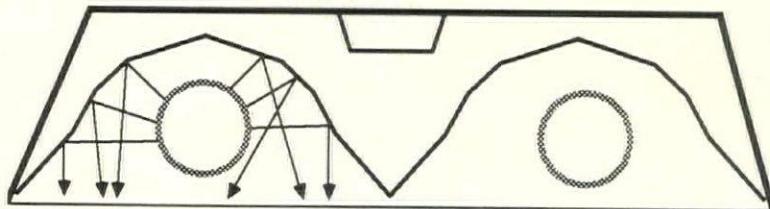
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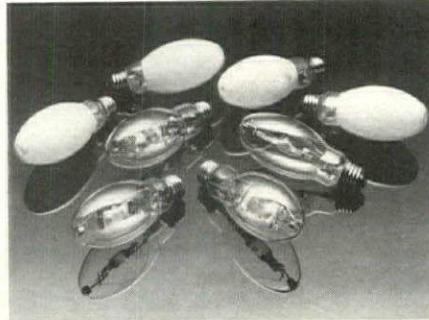
60 Industrial Way Brisbane, CA 94005 (415) 468-2560



■ Recessed exit signs

Lithonia's Signature Series of cast aluminum specification-grade exit signs includes new recessed models with concealed mounting hardware. Electronic components are recessed in a steel universal mounting box the depth of a standard stud wall. Models are available for incandescent and fluorescent lamps and for emergency and nonemergency operation; lamps are furnished with the unit. AC and DC remote lamp kits, flashing and audible emergency signals, and a fire alarm interface are among the options available. Lithonia Emergency Systems, division of Lithonia Lighting, Conyers, GA.

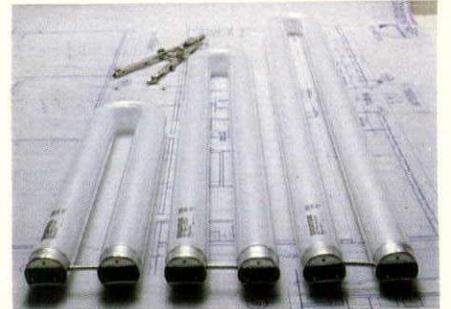
Circle 180



■ Metal halide lamps

Low-wattage metal halide lamps from Venture Lighting International all have the same compact bulb size and medium screw base. Clear and coated lamps come in six wattages, from 35 to 175. Venture Lighting International, Cleveland, OH.

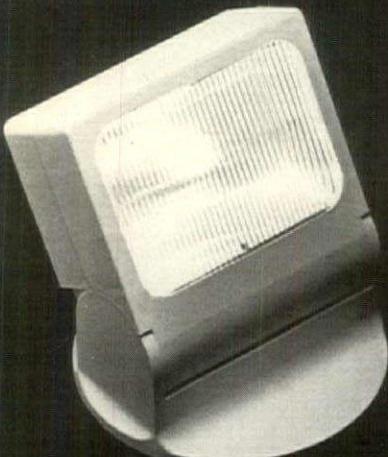
Circle 181



■ U-shaped fluorescents

GTE/Sylvania's Octron Curvalume fluorescent lamps are 1-inch-diameter, U-shaped lamps designed for use in square fixtures. Their average rated life is 18,000 hours. They come in cool and warm versions (4100K and 3100K) and have a color rendering index of 75. GTE/Sylvania, Danvers, MA.

Circle 184



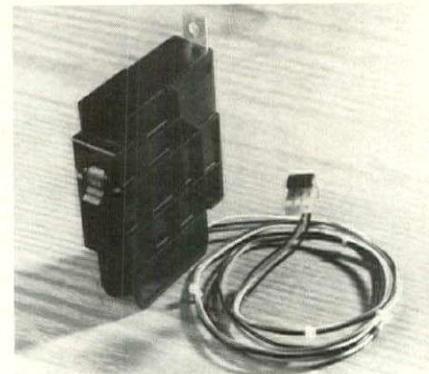
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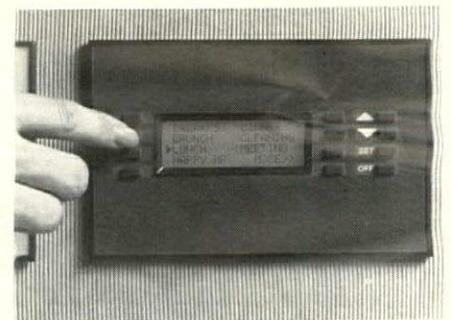
Circle 56



■ Solenoid circuit breaker

Westinghouse Electric's solenoid-operated circuit breakers provide over-current protection and remote switching capabilities. They are suitable for new and retrofit installations, including utility-controlled peak load management, commercial and industrial lighting and energy management, and security lighting systems. The 277-volt breakers operate at 15 and 20 amperes, providing a highly visible trip indication. Westinghouse Electric Corporation, Pittsburgh, PA.

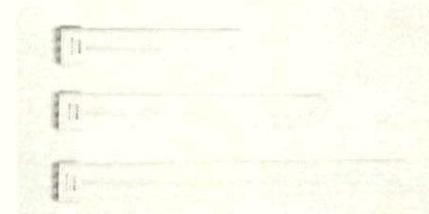
Circle 182



■ Dimmer, controller

The Viewpoint lighting control system from Lee Environmental Lighting can be adapted and expanded as needs change. A station can control one to 14 preset levels, and the system can control up to 40 stations. A three-digit combination code locks the unit to prevent unauthorized use. System components include an entry station for on-off switching in a space, an LCD station for selecting and changing presets and channels, and an LED station for selecting or adjusting preset levels in a space. Lee Environmental Lighting, division of Lee Colortran, Inc., Burbank, CA. ■

Circle 185



■ Compact fluorescent lamps

Dulux L compact fluorescent lamps from Osram are one-third the size of the F20, F30, and F40 lamps they are designed to replace. They come in sizes from 18 to 40 watts, last up to 20,000 hours, have a color rendering index of 85, and operate on rapid start, preheat, or electronic ballasts. They can be used in combination with high color rendering metal halide lamps of the same color temperature. Osram Corporation, Newburgh, NY.

Circle 183

Classified Directory

ACCENT AND DISPLAY LIGHTING (INTERIOR)

- MIROFLECTOR CO.**, 40 Bayview Ave., Inwood, Long Island, NY 11696 516/371-1111
Full line of recessed accent lights, down lights & wall washers. Architectural cylinders for HOI, incandescent compact quad fluorescents and HID lamp sources.
- NL CORP.**, 14901 Broadway, Cleveland, OH 44137 FAX 216/662-9069 or 216/662-2080
Recessed HID and incandescent; decorative; custom; church; 20, 30, & 60 amp track; fluorescent lighting systems. Call for more information.

ACCESSORIES AND COMPONENTS

- AMERICAN LOUVER CO.**, Skokie, IL, Louvers and Lenses 800/323-4250 or 312/470-3300

AMBIENT LIGHTING SYSTEMS (INTERIOR)

AREA LIGHTING (EXTERIOR)

- AMERICAN ELECTRIC**, 1555 Lynnfield Rd., Memphis, TN 38119 901/682-7766
HID luminaires for area, facade, roadway, sports, and industrial lighting applications.
- C.P.I. CONCRETE PRODUCTS**, P.O. Box 13324, Memphis, TN 38113 FAX 901/775-9883 or 901/775-9880
Concrete light poles & bollards. Fourteen decorative colors & exposed aggregate finishes such as dark bronze, black, & granite to match any setting. Square tapered design up to 65 ft.
- ELA CO.**, 17891 Arenth Ave., City of Industry, CA 91748 818/965-0821 FAX 818/965-9494
Mfgs. of decorative outdoor fixtures, poles and arms for the commercial and residential mkt. Custom designing and mfg. of decorative interior/exterior fixtures.
- J.H. BAXTER & COMPANY**, P.O. Box 10797, Eugene, Oregon 97440 503/689-3020
Manufacturer of Timberwood Lighting Standards. A superior pressure-treated Douglas fir laminate for decorative outdoor lighting support. Contact Richard Baxter.
- PEMCO CORP.**, Philadelphia, PA, Exterior HID & Custom Lighting & Poles 215/236-9020
- STONCO**, 2345 Vauxhall Rd., Union, NJ 07083. Contact Phil Henry at 201/964-7000
Outdoor lighting; fixtures and accessories for industrial, commercial and residential markets.
- UNION METAL CORP.**, 1022 9th St. SW, Canton, OH 44707 216/456-7653
Steel, aluminum and concrete poles for area, roadway and sports lighting. Hi-mast raise-lower systems. Ornamental nostalgia lighting poles and luminaires.
- W.F. HARRIS LIGHTING**, 4015 Airport Ext. Rd., Monroe, NC 28110 704/283-7477
Indoor/outdoor decorative & vandal-resistant rustproof lighting for wall, ceiling, post & landscape applications. U.L. listed H.I.D., FL, INC & emergency fixtures.

CONTROLS

- LEE COLORTRAN**, 1015 Chestnut St., Burbank, CA 91506 FAX 818/954-8520 or 818/843-1200
VIEWPOINT, a field-configurable system of off-the-shelf Architectural Dimming and Control Components from Lee Environmental Lighting—a division of Lee Colortran, Inc.

DAYLIGHTING PRODUCTS

DECORATIVE LUMINAIRES (INTERIOR)

DESIGN SOFTWARE & TESTING/MEASURING INSTRUMENTS

- INTERNATIONAL LIGHT**, Dexter Industrial Green, Newburyport, MA 01950 617/465-5923
Radiometers, photometers, spectroradiometers, laser power meters for radiometry, photometry, UV curing, UVA/B phototherapy, germicidal radiometry & UV hazard use.

LAMPS

- VENTURE LIGHTING INTL.**, 625 Golden Oak Pkwy., Cleveland, OH 44146 800/437-0111
Metal Halide, High and Low Pressure Sodium, Mercury, MR-16 and MR-11 Display Lamps. Many new and unique products not available from other manufacturers.

LANDSCAPE LIGHTING

- ABEC LIGHTING**, 4084 Arnold Ave., #8, Naples, FL 33942 813/643-4242 or 813/643-3305
Quality outdoor landscape & security lighting. PVC construction. Fluorescent/low voltage available—all styles. Custom color & design. Commercial, residential, marine.
- IDAHO WOOD**, Sandpoint, ID, Landscape Lighting (Wood) 800/635-1100 or 208/263-9521
- WESTERN LIGHTING INDUSTRIES**, 354 W. Valhalla Dr., Burbank, CA 91505 818/841-7896
OMEGALUX 1200, a series of specification grade floodlights utilizing high-intensity fluorescent PL/Dulux lamps. Sizes 7, 9, 13, & 26 watt. All wet location approved.

LIGHTING DESIGNERS AND CONSULTANTS

- FREDRICK RAMOND INC.**, 16121 S. Carmenita Rd., Cerritos, CA 90701 FAX 926-1015 213/926-1361

OEM MANUFACTURERS

- GAYNOR CO.**, 200 Charles St., Stratford, CT 06497 203/378-5545 or FAX 203/381-9019
For more information about fluorescent wiring devices, switches and lamp holders, call and ask for Jill Sapak.

OTHER LIGHTING SYSTEMS AND LUMINAIRES

- CUSTOM NEON Mfg.**, Install interior neon. Portable & wall-mount art & signs. 213/937-6366
- PARADISE DESIGN & MFG. INTL.**, 2633 E. 28th, #602, Signal Hill, CA 90806 213/427-5756
Portable neon fixtures, custom cove lighting & neon art, stock figures for residential, commercial, & architectural applications. For information call Don Narbone.

OTHER SERVICES

REPS WANTED/REPS AVAILABLE

- IMERO FIORENTINO ASSOC.**, 7060 Hollywood Blvd., L.A., CA 90028 213/467-5020
Wanted: Full-time Lighting Professional-Project responsibility, wide variety of projects. Architectural background & organizational ability a must. Contact John Levy.
- REPRESENTATIVES WANTED/Lighting wholesale exclusive high-end contemporary lighting.**
Residential and commercial. Great opportunity with highly respected growing company. Send resume in strict confidence to: CAREER DEV. CENTER, P.O. Box 10460, Dept. AL-788, Eugene, OR 97440

THEATRICAL/STAGE LIGHTING

The Classified Directory is a monthly feature of *Architectural Lighting*, offering readers easy access to lighting products and services for commercial, industrial, and institutional applications. Listings in this reference section are sold on an annual basis at the rates outlined below. For full information and closing dates, contact Gordon Exe, (800) 822-6678 or (503) 343-1200.

FIRST LINE—\$990 / 12 issues

BOLDFACE, ALL-CAP ITALIC LISTING or Boldface, Upper/Lower Case Italic.

ADDITIONAL LINES—\$690 / 12 issues

REGULAR, ALL-CAP LISTING or Regular, Upper/Lower Case.

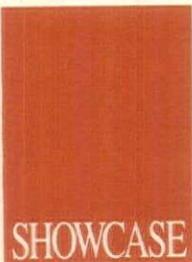


accepted

Directory

SHOWCASE

Product Literature



Track and accent lighting

Track and accent lighting products are featured on pages 14-17.



■ Architectural lighting

An updated product digest from Sylvan Designs describes low- and line-voltage architectural lighting fixtures, including flexible and rigid light strings, and landscape systems. Sylvan Designs, Inc., Northridge, CA.

Circle 204



■ Small office light

Peerless Lighting offers an 8-foot-long indirect lighting system that produces even, glare-free illumination in small offices and can be mounted 12 inches from the ceiling. Peerless Lighting Corporation, Berkeley, CA.

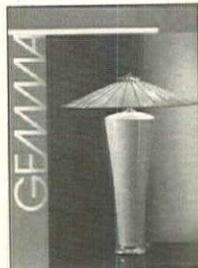
Circle 209



■ Track-mounted projector

A data sheet from Wendelighting's product catalog profiles the Model 1180 optical projector, which has a yoke and adapter for track mounting in new or existing systems. Wendelighting, Burbank, CA.

Circle 200



■ Hand-crafted glass lamps

A full-color catalog from Gemma Studios provides information on contemporary glass lamps. It includes color samples, application photos, and descriptions of features. Gemma Studios, Inc., Northampton, MA.

Circle 205



■ Compact fixtures

A 36-page color catalog profiles a complete line of fixtures designed for compact fluorescent lamps, including downlights, cylinders, wall sconces, and brackets. Marco/Marvin Electric, Los Angeles, CA.

Circle 210



■ Indirect, direct lighting

Silhouette luminaires, designed for the Osram HQI lamp, produce an asymmetric beam pattern for direct and indirect lighting. Floor units and wall-mounted models are available. Miroreflector Company, Inc., Inwood, NY.

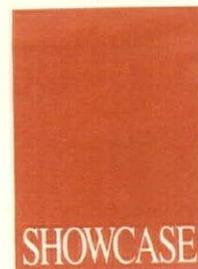
Circle 201



■ Decorative luminaires

A 44-page color catalog profiles Casablanca Lighting's decorative ceramic, Murano glass, and Irish lead crystal pendants, ceiling lamps, sconces, and table lamps. Casablanca Lighting, Valley Forge, PA.

Circle 206



Landscape and area lighting

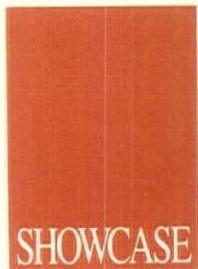
Landscape and area lighting products are featured on pages 40-49.



■ Fresnel fixtures

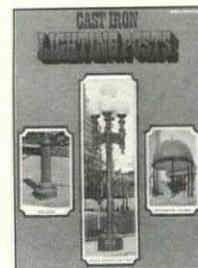
A data sheet tells how LTM's Designer Fresnel fixture uses a spherical reflector and a prismatic fresnel lens for spot-to-flood control of its focusing range. LTM Corporation of America, Sun Valley, CA.

Circle 202



Ambient lighting systems

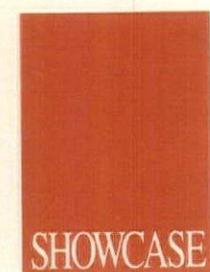
Ambient lighting products are featured on pages 34-37.



■ Cast-iron posts

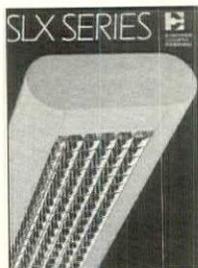
A brochure depicts cast-iron posts in 22 traditional styles, some dating back to the 18th century, with matching post adaptations and bollards. Spring City Electrical Manufacturing Company, Spring City, PA.

Circle 211



Decorative luminaires

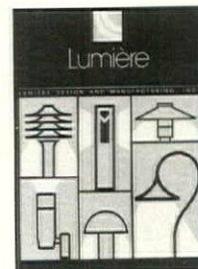
Decorative luminaires are displayed on pages 24-29.



■ Linear fluorescent system

A brochure shows how the compact SLX Series mounts 12 inches from the ceiling, allowing for combinations of direct and indirect fluorescent lighting. Illumination Concepts & Engineering, North Kingstown, RI.

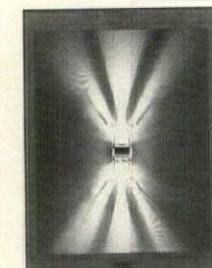
Circle 207



■ Landscape lighting

Low- and line-voltage landscape lighting fixtures, some with built-in transformers, are shown in a color brochure. A chart lists features. Lumiere Design and Manufacturing, Inc., Westlake Village, CA.

Circle 212



■ Wall luminaire

The Light Tapestry luminaire projects a spray of light rays in a fan-like pattern. A brochure contains cutaway sketches and color photos of applications for single- and double-spray models. Nessen Lamps Inc., Port Chester, NY.

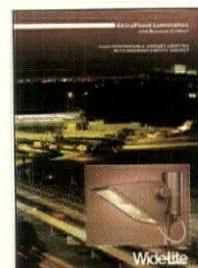
Circle 203



■ Nonmetallic luminaires

A brochure illustrates Hazlite M1 nonmetallic fixtures designed for corrosion protection. It includes a list of hazardous atmospheres where the fixtures can be used. American Electric, Memphis, TN.

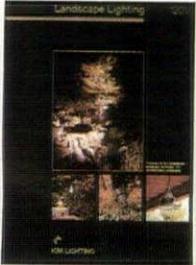
Circle 208



■ Airport lighting

A color brochure describes airport applications for the AktraFlood cutoff luminaire and the Bi-Level Switching system. Photometric data for FAA requirements are listed. Wide-Lite, San Marcos, TX.

Circle 213



■ Landscape lighting

Kim Lighting's full-color brochure of landscape lighting products contains drawings and photographs of outdoor lighting techniques and suggests fixtures for achieving various effects. Kim Lighting, City of Industry, CA.

Circle 214



■ Deck lighting

An illustrated color brochure from Dinico Products features a selection of luminaires for lighting decks, landscapes, and other outdoor entertainment areas. Dinico Products Inc., Hackensack, NJ.

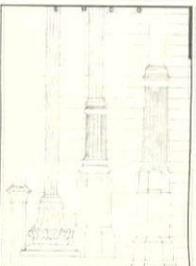
Circle 220



■ Fluorescent reflector

Megalux reflectors help reduce glare and cut lighting and maintenance costs. A data sheet describes features, installation, and payback for the custom-made reflectors. Badger USA, Inc., Baraboo, WI.

Circle 225



■ Lighting poles

A catalog from Emco Environmental Lighting contains descriptions and sketches of a variety of decorative aluminum and steel poles. Emco Environmental Lighting, Milan, IL.

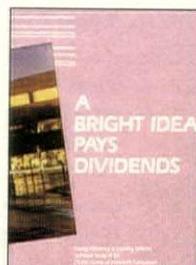
Circle 215



■ Gaslights

A brochure from U.S. Gaslight shows 24 cast aluminum gas lanterns with heat-tempered glass lenses. Sketches and dimensions for each model are included. U.S. Gaslight, Norcross, GA.

Circle 221



■ Reflector retrofit

A case study describes the benefits of retrofitting Everbrite reflective sheets in fluorescent fixtures at the corporate headquarters of the Chubb Group of Insurance Companies. Alcoa, Sheet & Plate Division, Bettendorf, IA.

Circle 226



■ Fiber glass poles

A color brochure compares Shakespeare's decorative, round, and square fiber glass light poles with poles made of other materials. Shakespeare, Newberry, SC.

Circle 216



■ Bollards

Gardco's bollards are built to resist damage from vandals, weather, and insects. A 12-page color brochure contains descriptions and photos of three models and detailed cut-away drawings. Gardco Lighting, San Leandro, CA.

Circle 222



■ Dimming controls

A brochure from Macro Electronics describes capabilities of the company's architectural dimming control systems. Macro Electronics Corporation, Austin, TX.

Circle 227



■ Landscape lighting

A 60-page color catalog introduces Hadco's Night Life collection of more than 140 low- and line-voltage landscape lighting fixtures and suggests ways to achieve desired lighting effects. Hadco, Littletown, PA.

Circle 217



■ Traditional posts

A brochure describes polysteel and cast aluminum posts in two styles and two heights. Ten luminaires and matching sconces, pier mounts, bollards, and mailboxes are also shown. Classic Lamp Posts, Miami, FL.

Circle 223



■ Fluorescent lamps

A color brochure profiles Advantage X fluorescent lamps from Philips. Features include a T10 tube, three color temperatures, and a color rendering index of 80. Philips Lighting Company, Somerset, NJ.

Circle 228



■ Custom lighting

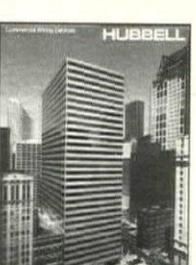
Phoenix Products describes its capabilities for developing custom lighting fixtures from rough concept to finished product in a color brochure that shows examples. Phoenix Products Company, Inc., Milwaukee, WI.

Circle 218



Components and accessories

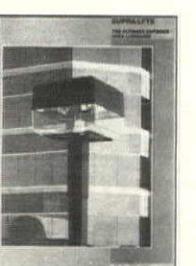
Lighting components and accessories are featured on pages 52-58.



■ Commercial wiring

A six-page color brochure describes commercial specification-grade receptacles, AC wall switches, ground fault circuit interrupters, and wall plates. Hubbell Incorporated, Wiring Device Division, Bridgeport, CT.

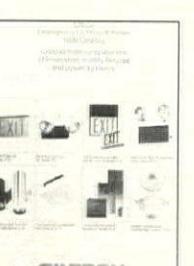
Circle 229



■ Outdoor area luminaire

Wide-Lite's Supra-Lyte Type V luminaire is designed for efficiency and energy savings. A brochure describes reflector design, nonmetallic optical housing, and energy-saving features. Wide-Lite, San Marcos, TX.

Circle 219



■ Emergency systems

Siltron's 48-page 1988 catalog includes exit signs, emergency and regular lighting fixtures, hazardous area and explosion-proof fixtures, and inverter and power systems. Siltron Illumination, Inc., Cucamonga, CA.

Circle 224



■ Halogen PAR lamps

A data sheet from GE Lighting lists features of the PAR 20 and PAR 30 Halogen Performance Plus lamps. A chart shows beam patterns and average CBCP for eight versions. GE Lighting, Cleveland, OH.

Circle 230

In This Issue

Manufacturers

Page 12. *Accent lights animate autos in Texas showroom* (Henry Butts Oldsmobile, Dallas, Texas).

Litelab: Accent lighting and custom mounting clamps.

Neotek: Purple neon.

Omega: Office lighting.

Strand Lighting: Control systems.

Sylvan Designs: 2½-inch aperture lights.

Vista: Low-voltage light tube.

Page 18. *Handmade luminaires relax, stimulate diners* (The Buckhead Diner, Atlanta).

Pam Morris, Exciting Lighting: Wall sconces.

Farallon Studios: Entry bowl-type chandeliers.

Kim Hix, Near Future Traders: Bar, ceiling, bathroom, and exterior fixtures.

Jim Lundberg, Lundberg Studios: Small round ceiling lights.

Kuleto Consulting & Design: Booth aisle lights.

Page 30. *Lighting design helps create '50s ambience in hotel* (Nevele Hotel and Country Club, Ellenville, New York).

Alkco: Under-cabinet lighting.

Appleton Electric: Rear fascia lighting.

Lewis Signs: Neon.

Lightolier: Recessed downlights.

Neon City: Cold cathode.

Page 38. *Problems and potential of lighting lakes and rivers.*

(Old River Woods Marina, West Linn, Oregon.)

Devine: Steplight fixture.

Timberworks Oregon: Custom fabricated wood housing.

(Jenne Lake, Beaverton, Oregon.)

American Electric: Floodlights.

Kim: Fountain lights.

Page 50. *A/E headquarters shows off lighting technology* (Anderson DeBar-tolo Pan corporate office headquarters, Tucson, Arizona).

Lightolier: Compact fluorescent downlights, low-voltage incandescent accent lights, customized mercury vapor sconces.

Metalux: Fluorescent troffers.

Integralite: Indirect fluorescent fixtures in boardroom.

Luxo: Compact fluorescent task lights.

Kim: Site lighting.

GE; GTE/Sylvania; Philips; Osram: Lamps.

Advance Transformer; Universal: Ballasts.

Sternner: Photoelectric daylighting controls.

Leviton: Power-line carrier control

system, dimmers for executive offices.

Lutron: Dimmers for boardroom.

York-Lite: Exit signs.

Manufacturer credits reflect the products specified for the projects; it is possible that other products were installed during construction or maintenance.

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