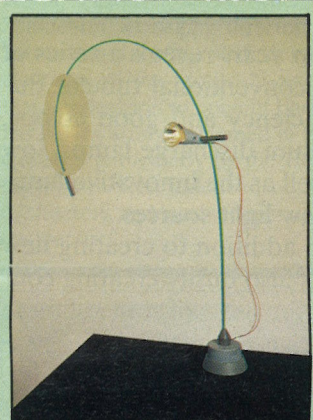


LIGHTING

EQUIPMENT NEWS

FEBRUARY 1988



Mike Stevenson designed this piece of low-voltage high tech. These lights and sculptures by Mo Jupp are on display at Contemporary Applied Arts, 43 Earham Street, London WC2H 9LD, 01-836 6993.

Receivers appointed to Lumi-Low

Lumi-Low Limited, Hertfordshire-based lighting specialist, went into receivership in January.

Purchasers are being sought for the company which trades as *Light Fantastic* and operates a specialist lighting shop in Watling Street which has annual sales of more than £100 000. The firm also develops and sells modern, low-voltage light fixtures with sales of approximately £750 000.

The company's failure is attributed by the receiver to the heavy cost of developing its recently launched Lumidrive C, an adaptor that allows low energy light lamps to be fitted into conventional light sockets.

Electrex

Electrex, 29 February to 4 March at the NEC, is previewed in this issue of *Lighting Equipment News*.

In the centre of the magazine, between pages 8 and 9, is a 12-page supplement, showing the lighting stands in each of the halls, with an alphabetical list of exhibitors displaying lighting or lighting-related products.

Brief notes about products on show are given, with the stand numbers at the end of each piece.

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ELECTREX SUPPLEMENT
BETWEEN PAGES 8 & 9

UK lighting designers climb to the top

Two British lighting designers are among those who received citations for their work from the IALD.

Two awards of excellence and five citations for significant design achievement have been announced by the International Association of Lighting Designers which is based in the USA.

One award of excellence was for the lighting of McCarran International Airport in Las Vegas by Stephen W. Lees of Horton Lees Lighting Design Inc (see below).

The jury praised the use of lighting to create a likeable, welcoming airport which has a flavour of Las Vegas without being overdone. The colour coding of the lighting clarifies the spaces.

The other award of excellence was presented for the Advantage kitchen shoroom in Massachusetts, lit by Chris Ripman and Nancy Terkirian Polcari of Ripman Lighting Consultants. A dramatic and witty marketing environment had been created with lighting playing a major role in the design theme.

Jonathan Spiers of Lighting Design Partnership in the UK gained two citations, one for the Dress Circle Restaurant at Harrods and the other for the atrium of the Sheraton Hotel in Oslo.

Derek Phillips, of Derek Phillips Associates, Bovingdon, Herts, received a citation for his work on the Durbar Court at the Foreign and Commonwealth Office in London.

Other projects that gained citations were the renovation of Carnegie Hall, New York, and the restoration of the Willard International Hotel in Washington.

The IALD awards programme was begun in 1983 to increase the awareness of good lighting design. The competition is open to any designer.



McCarran International airport, Las Vegas.



The main hall of the Royal Museum of Scotland in Edinburgh has been relit using Thorn Lighting's Arcstream metal-halide lamps. Single-ended 150W lamps in specially-designed quarter-sphere uplights were used. Low-voltage tungsten-halogen lighting from the Lightstream range provides spotlighting. Electrical load has sunk to 16.8kW from a previous 20.4kW fluorescent/PAR 38 scheme. Thorn Lighting 01-363 5353.

Secundalux is on the move

Following the recent acquisition by FKI of Babcock International, the company has moved the manufacturing of its Secundalux range of emergency lighting from Bab-

cock Transformers at Bilton to FKI Cableform at Sowerby Bridge, West Yorkshire.

FKI will undertake a programme of continuous product development and improvement, and plans to extend the emergency lighting range to include more decorative fittings in line with increasing demand in this area.

CIBSE members make more money

An Engineering Council report has revealed that members of CIBSE (Chartered Institution of Building Services Engineers) have higher salaries than many colleagues from similar institutions.

Figures extracted from the report, which analyses pay and conditions among registered Electricity Council engineers, provide the following conclusions:

- Of the 18 engineering institutions, CIBSE members are paid the sixth highest wages.
- CIBSE members' average salaries stand at £21 397 — while civil engineers languish at £18 351. IEE comes top at £21 490.

For further information, contact Anne Hully at CIBSE, 01-675 5211.

Lighting shines on the eye

The 1988 Trotter Paterson Memorial Lecture will be presented by Professor John Marshall, Sembal Professor of Experimental Ophthalmology at the Institute of Ophthalmology, London University.

Those who attended the 1986 National Lighting Conference in Nottingham will remember the talk on lighting and the ageing eye given by Professor Marshall. His lecture on 17 February will take and expand on this theme.

The venue will be the Royal Aeronautical Society, Hamilton Place near Hyde Park Corner, London, at 6pm. Anyone who wishes to attend should contact CIBSE's Member Services Department for a ticket, 01-675 5211.

Circuit breakers' usage claims slammed

The Institution of Electrical Engineers (IEE) has noted "with considerable concern the irresponsible assertions that total or complete safety is assured" by the inclusion of residual current devices in electrical installations.

The IEE points out that residual current devices (r.c.d.s) are ineffective in certain circumstances, and that electricity must be treated with respect, and used correctly. For further information, contact IEE 01-240 1871.

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NEWS

Chandeliers share space at BDC

Starlite Chandeliers took space on the shared British Contract Furnishing Association stand at the Business Design Centre, Islington, starting from December.

The BCFA stand, a permanent showroom at BDC, features products from members; these include office furniture, ceiling systems, and Candell Lighting. The BCFA has more than 25 member companies' products on show at the showroom, and some members have their own stands nearby.

Further details from Starlite 0952 680400.

Cafe Satellite blasts off with Microlights

Cafe Satellite, the new young things' restaurant/store in the West End, is lit with Microlights' low-voltage lighting.

Fitch & Co developed the interior design, which includes lanterns projecting the Cafe Satellite corporate image onto floors and walls. Thirty Microflood 75s and twenty-two Microfresnel 100s were used in other areas, with coloured filters, aiming to give the venue a sense of theatre.

Further information from Microlights, 0672 55611.



Lighting consultants Coburn & McKnight, Belfast-based agents for Crompton Parkinson, specified Crompton Lighting luminaires for the new BMW complex in Portadown. The David Prentice Cars showroom uses recessed modular luminaires from the Modulux range. The 1200 by 600mm units are each fitted with four 36W Spectra 84 fluorescent lamps. Specular reflectors with cross-louvre baffles provide a low-brightness effect. Crompton Convertex modules are fitted in selected luminaires to give emergency lighting in the event of mains power failure. In the same BMW centre is an advanced car-wash, with lighting provided by Crompton's Tufflite luminaires. These are IP65 units, designed to resist such conditions. Crompton amenity lighting, in the form of low-level bollards and floodlights, have also been used. Details from Jane Carter at Crompton Parkinson on 0604-30201.

In Brief...

● Sparkys decorative lighting and electrical services has moved to 39 Countess Street, Saltcoats, KA21 5HP, telephone 0294 602496.

● Beama and BOTB has organised a British presence at Domo-technica in Cologne, 9-12 February. Details from Beama 01-437 0678.

● Recruitment and training advice is available in leaflet form from the Heating and Ventilating Contractors' Association, free. Details HVCA 01-229 2488.

● Construction is struggling hard to attract school leavers according to Construction Industry Training Board. The answer is said to be improve the public's perception of construction. Details CITB 01-489 1662.

● Quality assurance advice for companies wishing to implement BS 5750 and ISO 9000 is available from Bywater technology. A video and supporting documentation is said to enable companies to establish these qa standards with the minimum of external help. Details Bywater Technology 01-572 6637.

● Energy Park News, the monthly pamphlet on Milton Keynes' energy-efficient development, is available free from Energy Park News, Milton Keynes Development Corporation, 502 Avebury Boulevard, Central Milton Keynes, MK9 3HS.

● British Sign Association has moved to 207 Balham High Road, London SW17 7BQ.

● JSB Electrical reports that the year to 30 September 1987 saw profits before tax climb 50%. Details from JSB 0477 37773.

CIBSE

2D or not 2D?

Only the most curmudgeonly person would deny that the lighting industry has been remarkably creative over the last decade.

Looking back over the last ten years reveals a series of developments in light sources: conventional tubular fluorescent lamps giving high efficiency and good colour, compact and high pressure sodium discharge lamps, low voltage tungsten halogens; as well as the innovative luminaires needed to match these new light sources.

What I am afraid of is that in addition to creating new products, the lighting industry is also busily creating confusion — at least in the minds of the users of some of these products. Confusion is likely because similar looking products are being identified by names which are also similar, and no more so than in the area of compact fluorescent lamps.

In the beginning there was the SL, then came the 2D, followed by the PL. All right so far? After this appeared a range of compact fluorescents called the Dulux D and the Dulux L. Shortly after appeared the PLC. As if this were not confusing enough to those of corporate mind, trying to get a grip on the myriad of compact fluorescents spilling from the lighting industry's cornucopia, we have recently been offered the 2L and the Opus EL, Opus D, Opus S, and Opus L.

Enough is enough. Surely it is about time somebody, such as the Lighting Industry Federation, attempted to bring some order out of this chaos of names and initials. In the long term, confusion cannot be good either for the lighting industry or for the promotion of new projects.

Dr P Boyce

See Lighting Equipment News, January 1988, page 16. Editor.

IMI Reeves Candleholders outshine all others.

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IMI

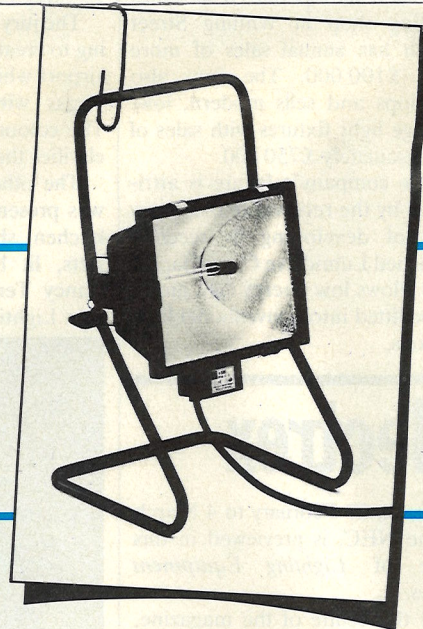


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Your faithfully,

W.A. Boyd

W.A. Boyd
Sales Director

P.S. The attached photo shows the Meyer Mobilight Halogen floodlight — a portable unit integrated in a solid safe support ready for instant use. 500 or 1000 watts. B.B.

NEWS

Samuelson sets up NE

Samuelson Lighting Ltd, a major television and film lighting company, has opened its first regional base in Leeds, where on 1 January the company commenced an exclusive two-year contract servicing Yorkshire Television.

"I believe there's a great deal of potential for future growth in the North East," says Michael Samuelson, managing director of Samuelson Lighting and deputy chairman of the group. "I know that our decision to open in Leeds has been warmly welcomed in the industry, particularly by the BBC regional centres, independent TV contractors, and local independent companies."

The Leeds premises were built in 1987, and the company has invested approaching £1 million in lighting equipment, mobile alternators and vehicles to ensure that the new base has the resources to service its clients efficiently. The manager, Frank Morris, is a Northerner returning after several years' work at Samuelson Lighting's London headquarters.

The Leeds base has already supplied crews and equipment for a number of independent companies, including Central Television in Nottingham, where Samuelson Lighting, with Samuelson Concert Productions, is providing special studio lighting.



East Midlands Electricity has improved the lighting conditions at the KP Foods warehouse in Ashby-de-la-Zouch. Specially designed fluorescent rack lights are cheaper to run, and cheaper to maintain than the more common high-bay sodium lights normally specified, says East Midlands Electricity. The luminaires were designed by Philips lighting, and EME fitted four of them free so that KP could compare the lighting effects. In the end, 202 fittings were installed (compared to 139 if high-bay sodium had been used). Each lamp costs about £5 rather than about £28 for a sodium lamp, with illumination of 120 lux. For further information, contact Julian Evans at East Midlands Electricity 0602-269711.

Road revisions under way

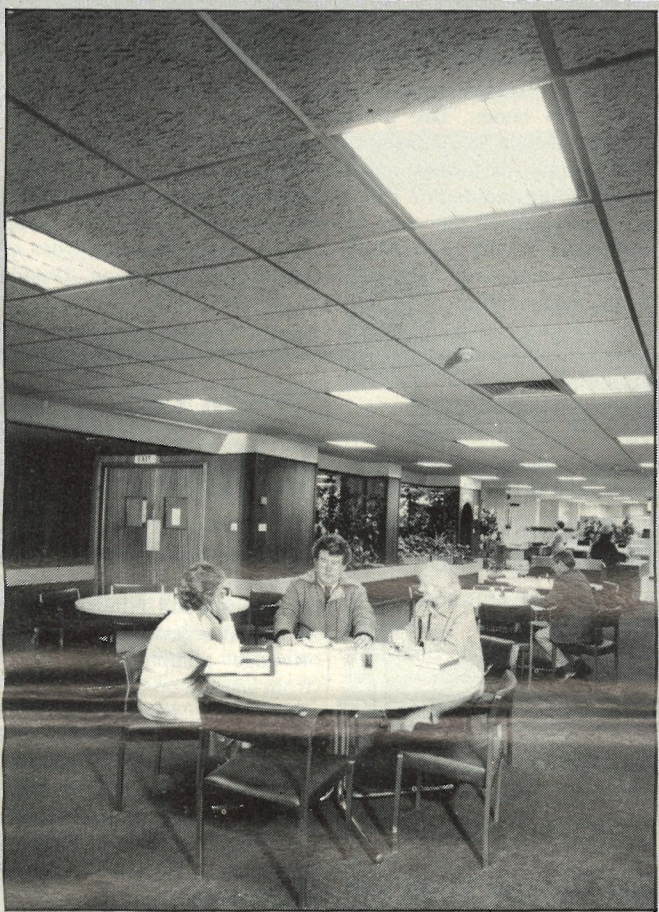
Part 4 of BS5489 Road Lighting has been published by BSI.

BSI is preparing further parts of the multipart standard BS5489 Road Lighting, to bring it into line with international road lighting philosophy.

Three parts have so far been published: guide to general principles; code of lighting practice for traffic routes; and code of practice for lighting for roads near aerodromes, railways, docks and navigable waterways. The new

addition has been the code of practice for lighting single-level road junctions including roundabouts.

Parts in preparation cover lighting for subsidiary roads and associated pedestrian areas, grade separated junctions, bridges and elevated roads, tunnels and underpasses, urban centres and other public amenity areas, and motorways. Copies of BS 5489 parts so far published are available from BSI sales, Linford Wood, Milton Keynes, MK14 6LE.



The Memorial Hospital Darlington has a staff restaurant without daylight and with a restricted ceiling height. To solve the lighting problem, under the direction of the projects engineering works officer, Darlington Health Authority has installed recessed luminaires from Crompton Parkinson's Modulux range. The 600mm square luminaires contain four 18W fluorescent lamps, and the louvres give a broad light distribution while limiting glare. Details from Crompton Lighting, 0604-30201.

DIARY

FEBRUARY

9

Retail profitability. Conference to be held at Royal Lancaster Hotel, London. Exhibition alongside conference. Details from RMDP, 61-63 Ship Street, Brighton, Sussex BN1 1AE, 0273 722687.

Contract Lighting, Ceilings and Partitions Exhibition. Business Design Centre, London, until 11th. Details from AGB Exhibitions Ltd 01-868 4499.

10

Electrical Services in Education. Half-day seminar at CIBSE, London, arranged by Electrical Services Group. Details from CIBSE 01-675 5211.

Urban lighting design. Seminar at The Royal Institution, London, arranged jointly by ILE and Urban Design Group. Details from Barry Ramsay 0920 870567.

Lighting controls. Evening meeting, Old Royal, Birmingham.

Arranged by West Midlands Region, CIBSE. Details from A Singleton 021-706 5511.

17

Lighting and the ageing eye. Trotter Paterson memorial lecture by Professor John Marshall. Evening meeting at the Royal Aeronautical Society, London. Details CIBSE 01-675 5211.

18

M & E services to the new Metro Centre. Evening meeting at the Metro Centre, Gateshead, arranged jointly by CIBSE and Institution of Electrical and Electronics Incorporated Engineers. Details from IEEIE 01-836 3357.

Building management systems. Evening seminar at Crest Hotel, Eastleigh arranged by southern Region, CIBSE. Details from Derek Muspratt 0703 339300.

Illuminations and street lighting by A. Elliott. Evening meeting at BDP Offices, Preston, arranged by CIBSE North West Region. Details from A Gregory, 52 Croasdale Drive, Thornton Cleveleys.

23

Beyond the garden gate. Address

by chairman of CIBSE Lighting Division. To be held at the School of Architecture, Manchester University. Details from J H Troughear 061-427 4126.

National lighting awards. Lunchtime meeting at Kegworth organised by CIBSE East Midlands Region. Details from D A Atkinson 0602 269711.

Emilas award scheme. Evening meeting at Plymco, Plymouth, arranged by CIBSE South West Region. Details from Derek Prickett, Plymouth 662308.

24

Beyond the garden gate. Address by chairman of CIBSE Lighting Division. Evening meeting at The Rutland Hotel, Sheffield, arranged by CIBSE Yorkshire Region. Details from G D Hoyle 05532 674411.

25

Building services. One-day seminar — the agenda for the 1990s. Evening meeting at the Institution of Engineers of Ireland, Dublin. Arranged by CIBSE Republic of Ireland Branch. Details from Oliver Reddy, VMRA Consulting Engineers, Dartry Road, Dublin 6.

MARCH

8

Beyond the garden gate. Address by chairman of CIBSE Lighting Division. Evening meeting at RSAC Club, Glasgow, arranged by CIBSE Scottish Region. Details from L S Martinez 041-334 6161.

22

Turner's treatment of light. Charles Marques memorial lecture arranged by the Institution of Lighting Engineers. Evening meeting at The Tate Gallery, London. Details from ILE 0788 76492.

24

Architect + Engineer. Evening meeting at Bingham House, Cirencester, arranged by CIBSE South West Region. Details from D Lowdon 0272 279419.

COMMENT

Assessing the prospects

The first months of this year are somewhat packed. The Contract lighting, ceilings and partitions show, Lightshow and Electrex all fall in quick succession; lighting will have been blitzed.

During the year, there are a good number of seminars and conferences, both great and small. The contract lighting exhibition has its own seminar alongside*, Lightshow had its own talks on modern light sources, and round the corner is the CIBSE Lighting Division's conference.†

Nevertheless, this office is still called by readers asking for more information about low-voltage lighting. What is it? Where can I get some? Why doesn't it work?

Low-voltage lighting is hardly new. Compact fluorescents are new in size only, and metal halides are about 15 years old. Compact fluorescents are not familiar owing largely to prejudice; metal halides are still not as common as the economy and colour rendering say they should be.

Whatever the benefits of the various shows and seminars, there is still a great deal more to be done. Mike Goodwin, managing director of Philips Lighting, is keen on selling light rather than luminaires; in the same vein, the effects of lighting should be more important to specifiers than the toughness of the fitting or the saving of a miserable few pence per luminaire.

A recent caller bemoaned the difficulty in finding a particular luminaire, caused by the increase in specified business giving specific instructions. Nirvana will always be hell for some people.

*Contract lighting, ceilings & partitions exhibition, 9-11 February at the Business Design Centre, London. Conference called 'The new horizons'. Details from Impact Events 01-651 4350 or AGB 01-868 4499. †National Lighting Conference, Robinson College Cambridge, 27-30 March 1988. Details from Member Services Department, CIBSE, 222 Balham High Road, London SW12 9BS, 01-675 5211.

LIGHTING EQUIPMENT NEWS

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NEWS

In Brief . . .

● **Probuild**, a show for builders from 12 to 14 April at the Wembley Exhibition Centre, is said to be more than three-quarters booked. Details available from 0923 37799.

● **Oxford Street's** Christmas lights, designed by Lightscape, were run from Thorn EMI Lamps & Components' transformers. TELC can be reached at 01-640 1221.

● **LightGraphix** was selected to supply lighting for the Waterford Wedgwood showcases, using LightGraphix purpose-designed Showcase lighting. Details 0322 22389.

● **Parkfield Group plc** has released 'record' interim results for the half-year to 31 October, 1987. Details from Roger Felber 0428 56771.

● **NAC**, electrical component manufacturer, has moved to PO Box 135, Sheffield S17 2RF, 0742 620651.



Mansfield Town Football Club can play at night, thanks to lighting masts for sports grounds bought from Abacus Municipal. A range of low-cost masts, up to 15m, has been produced for the amateur and not-so-rich sports clubs. Abacus will provide computer-aided design services with the masts, and the company claims that the low-cost models still meet the code of practice and technical specifications set by the Institute of Lighting Engineers. Details from Abacus Municipal, Chris Yates 0623-511111.

People in Brief . . .

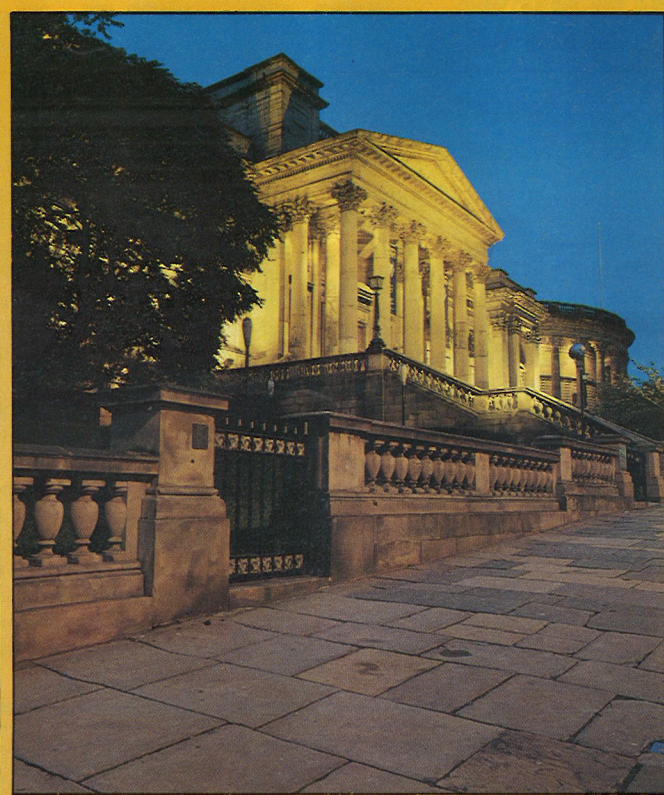
● **Brian Evans** has been appointed as Eastern Regional Director of the Haiste Group, the engineering and building consultancy group. Details 0733 42353.

● **Robert Higgs** has been appointed director-designate of the Heating and Ventilating contractors' Association. He will take over when present director Geoff Cutting retires. Details HVCA 01-229 2488.

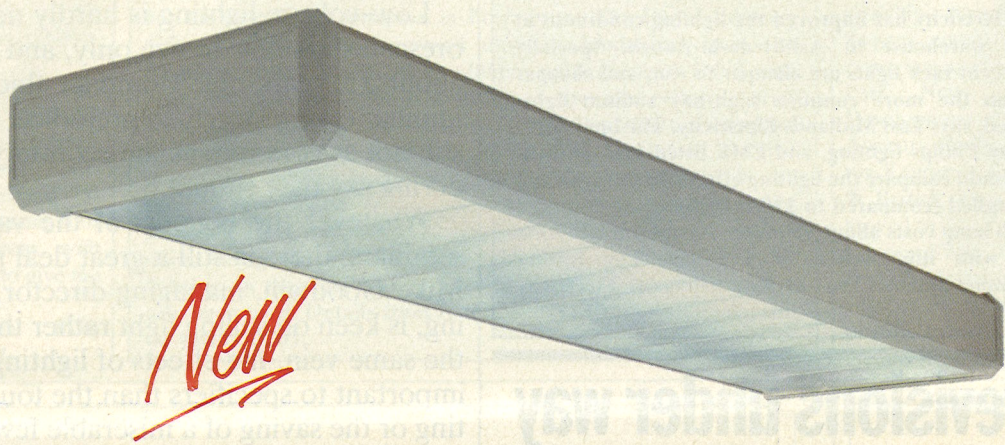
● **Jennie Price** has been appointed secretary of the Confederation of Associations of Specialist Engineering Contractors (CASEC). Details from HVCA 01-229 2488, John Boler.

● **National Illumination Committee:** chairman is **K Scott**, vice-chairmen are **Dr A F McKinlay** and **B Ruston**. Honorary secretary is **B R Austin** and honorary treasurer is **A H Willoughby**.

● **Kelvin Lay** has been appointed managing director of Helvar Ltd; 01-568 6205.



Liverpool Museum has been relit by city engineer R W Bertram, using SON lamps. This previously unlit, listed building is on William Brown Street, as is the polytechnic, the Picton Library, the Museum of Labour and the Walker Art Gallery. All have been lit, and installation was carried out by Merseyside electrical contractors West Cheshire Electrical and H A Newall. Lamp wattages from 70 to 400W have been used with three types of Osram floodlights; Sonstar, Euroflood and Solarflood. Details can be obtained from Osram-GEC, 01-904 4321.



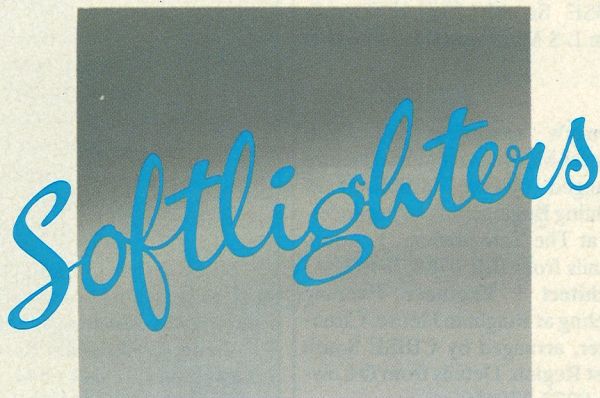
New

The surface Softlighter with integral control provides a highly cost effective energy conservation system. It is easy to turn off unwanted lighting automatically by using techniques of time control, solar control or local control. The luminaire is fully equipped for this as standard, only the central programming control or a reset switch need be added.

The surface Softlighter is suitable to meet your exact requirements and can be used as a modular unit or continuous installation. The luminaire is offered with a wide range of louvre and diffuser attachments.

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WHITECROFT
Lighting Division

Show lighting celebrates tenth birthday

The Association of British Theatre Technicians' tenth anniversary trade show will be held from 14 to 16 April.

The exhibition, which includes all stage, film and tv lighting equipment, will be in the Riverside Studios, Hammersmith, west London.

Further details from theatrical Trading, 4 Great Pulteney Street, London W1R 3DF, 01-434 3901.

Signing the way to quality

The president of the British Sign Association (BSA) has committed the association to quality assurance.

Speaking at the BSA annual lunch, Mike Chapman said quality offers safeguards to buyers of sign products. Forthcoming amendments to town and country planning rules should also save up to 15 000 annual planning applications, he added.

British Sign Association can be reached on 01-675 7241.

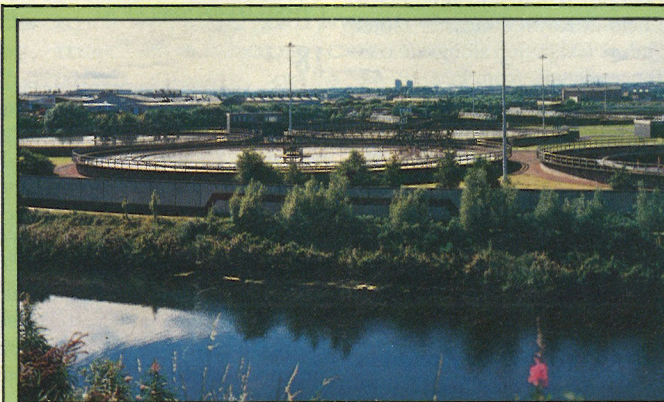
Trade Literature In Brief . . .

● **Hamilton Litestat** has published a catalogue describing its domestic and industrial light fittings and accessories. The colour, 40-page pamphlet is available from Litestat on 0747 860088.

● **Lighting controls**, based on mains signalling, are detailed in a new catalogue from ECS Energy Conservation Systems Ltd. The catalogue shows the principles of both new and refurbishment approaches to mains signalling. Details from Neil Jones, 01-751 6514.

● **Courtney Pope Lighting** has published its brochure on Wide-Light fluorescent luminaires, which incorporate the Allom Optek louvre system. The booklet gives information on three types of louvre/reflector designs for commercial premises. Details 01-800 7671.

● **Moorlite Electrical** has announced a 136-page colour catalogue, displaying the complete product range. These include office, retail, commercial, light industrial, special environment and hospital luminaires. The book also shows options for integration with various ceiling types. Details from Moorlite, 061-330 6811.



GEC high masts have been used to light the Strathclyde Regional Council's water and sewage treatment plant at Dalmarnock, Glasgow. Thirteen 20m masts have been installed, each fitted with six GEC Z9105 Spacelight2 lanterns. Each lantern houses two Osram 400W SON-T plus lamps. The masts are fitted with GEC side-by-side double drum winches and three-wire suspension headframes for the lantern carriages. This installation follows the completion of phase 2 of the lighting of the Shieldhall Sewage Works, Glasgow, where 19 masts were used. Details from GEC (Street Lighting), 01-904 4321.

NEWS

Light comes to life at Philips

A new Lighting Application Centre opened by Philips Lighting aims to show the effect of lighting equipment.

It is one of the most comprehensive lighting demonstration facilities in Britain and is located at the company's Croydon premises, near London.

Intended for use by those professionally involved in lighting design and installation, it also has important potential as a training facility.

A small theatre is equipped to demonstrate the fundamentals of light, colour and vision. The colour rendering of different types of fluorescent lamp is compared and demonstrated clearly. Small booths along the side of the theatre show colour comparisons of other lamps, including the various types of sodium lamp now on the market, while lightmeters indicate illuminances.

In addition there are five studio areas which are currently set out as offices and retail displays to show the latest lighting techniques in these fields.

Two identically furnished modern offices with VDUs are set side by side to enable visitors to compare the effect of different lighting schemes. One is lit by ceiling mounted fluorescent luminaires using a variety of attachments to control the light. Dimming control shows how versatile fluorescent lighting can be.

The other office is lit by uplights, downlights and a suspended tubular lighting system which provides task lighting over the desks using louvres below the lamps and prismatic panels above them.

A shop window display area can be divided into two to give a side-by-side comparison of different lighting treatments. The most interesting feature here is the successful use of White SON high pressure sodium lamps to light a colourful window display. The effect of these 150W lamps can be compared to that of 300W tungsten spotlights.

An area arranged as the interior of a sports shop allows visitors to experiment with a wide choice of lighting techniques, including luminaires with an asymmetric light distribution. The idea here is to show that "visual merchandis-

ing" increases the appeal of the goods on display.

The Lita Cube is an idea borrowed from Lita, one of Philips' French companies which has a similar demonstration facility. It is a bare, white, cube shaped room with many downlights and spotlights. The effect of different lamps and fittings can be demonstrated without visual distractions. A meter with a digital readout shows the electrical energy being used by the display at any time.

Philips believe this kind of lighting centre is crucial in helping to



Three display areas: left, the office area, centre (just seen) is the "cube", and right a retail display.



The identical offices, lit left with ceiling-mounted fluorescents, right with a mix of techniques.



The audio-visual centre, aimed at specifiers (and at selling).

explain design options to specifiers and users. It also helps to generate new ideas. The theme of the Lighting Application Centre is: where light comes to life.

To arrange visits to the centre, telephone Marian Bridgen on 01-689 2166.



Laskys is adopting a country-wide corporate image, and this means lighting has its part to play. Light Years has evolved an approach to the lighting needs with a combination of fluorescent fittings supplemented by recessed and spot lighting. The pilot scheme is in Hounslow, west London. Compact white adjustable recessed fittings were installed to light the shop perimeter, supplemented by integral transformer spot fittings on a discreet track for high-intensity spotlighting of products. Details from Light Years, 01-446 6021.

Corporate Lee Environmental revamps its packaging

Lee Environmental Lighting has redesigned its product packaging as part of a new corporate style programme.

The display lighting company, until June 1987 known as Mole Richardson, has swapped to burgundy and grey for all packs of low-voltage lighting and the Pyra-flood metal-halide lighting products.

For further information on the latest Lee re-jiggle, call Steve Hall 01-968 7000.

Design show boosted by £1½million

Design Council show 'The New Designers' has been given a £250 000 shot in the arm from Gordon Russell plc.

The show includes a lighting section, and is claimed to be the largest single exhibition of graduating talent in the UK. Gordon Russell plc designs and makes furniture.

The show is scheduled for 7 to 10 July at the Business Design Centre, London.

In Brief . . .

● **Health & Safety Commission** has published fresh proposals on informing employees about health and safety law. Comments should be with HSC by 18 March. Details H&SC 01-229 3456.

● **BESCA**, Building Engineering Services Certification Authority, has taken on its own admin and management, seen as a vote of confidence from the supporting organisations. Details ESCA 01-229 2488.

● **Electrical Contractors' Association** has appointed John Jenkins as its own in-house quality assurance auditor. Details ECA 01-229 1266.

● **Strandlight** magazine, issue 5, has been published. It is the theatre and television lighting journal published by Strand Lighting. Details Richard Harris, editor, 01-560 3171.

● **Light fixing kits**, aimed at suppliers of lighting to the domestic lighting market, have been introduced in package form. Each pack is a self seal poly bag containing screws, plugs and wiring block. Details Bob Raine 01-850 3337.

● **Whitcroft plc** has published its interim results for the half year to 30 September 1987. Details Tom Weatherby 0625 524677.

● **Electrolite** has moved to Delamare Road, Chesham, Waltham Cross, Hertfordshire EN8 9SH, 0992 20858.

● **Hagner International UK** has been appointed to handle Minolta industrial light meters. Details of the Minolta range from 0243 512387.

LIF LINE

Leading lights of Europe

If you're involved with public lighting, you've got until the end of March to enter the European Lighting Awards. We do want Britain to do well in this new competition — don't we?

All the signs are that our partners in The European Lighting Council are taking this launch year of the ELA very seriously indeed. A feeling of "We'll show you how to light public places" is building up, and a real competitive edge is discernible. Which is why we felt that it was worthwhile devoting this month's LIF LINE to a not-so-gentle nudge in the direction of our public authorities to make certain that the best of British is well to the fore when entries close on 31 March.

Although, by and large, a lot of our public lighting is the responsibility of the 531 local authorities we have in the UK, we should not overlook the many opportunities that exist for developers, property companies, and big business to get involved in this competition. As the ELA Rules state, "Public areas are where there is vehicular or pedestrian movement", so the scope for entrants is pretty broad.

Here are a few pointers, in case you have a lighting scheme on file that you're particularly proud of:

- floodlighting of a building or buildings that enhances the surrounding environment
- decorative floodlighting of a monument or area of public interest, eg tourism
- amenity and safety/security lighting of a housing estate, park or area of public recreation
- shopping malls and precincts
- roads, streets, tunnels and underpasses

Our coastal towns and resorts are especially rich in some of the above areas. Parks and gardens, promenades and ancient buildings all abound in those parts of the country which draw the tourist and their nighttime illumination is so often what makes them memorable and enjoyable.

Britain's standing on the European scene is that of a leader, a setter of examples for the rest to follow. Why should this not be so in our public lighting as well?

So, LIF urges the strongest possible support for the first European Lighting Awards. Where are the leading lights of Europe? Let's see YOUR entries competing with the best that the rest of Europe has to offer. Entry forms and full details are obtainable from the LIF at 207, Balham High Road, London, SW17 7BQ. Tel: 01-675 5432.

METROPOLIS

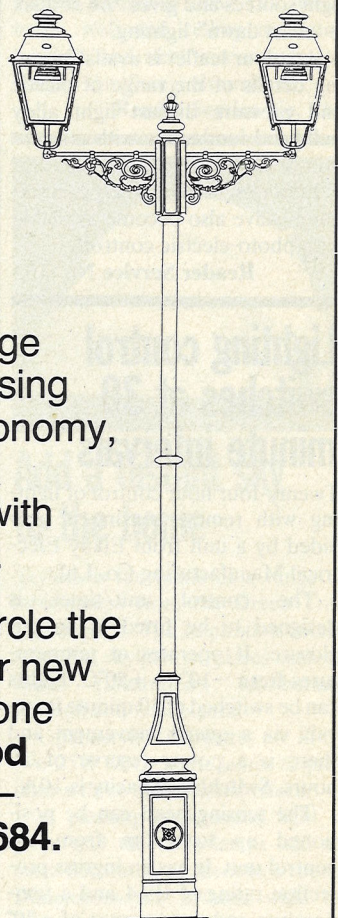
The elegant answer to precinct and public area lighting.

The Metropolis range offers uncompromising quality and real economy, when combining functional lighting with architectural effect.

See for yourself, circle the enquiry card for our new brochure or telephone



Kingswood Lighting — 0773 834684.



The new, purpose-built, Cripps computing centre at the University of Nottingham is lit using Tamplate low-glare modular luminaires. Tamplate design engineers arranged the luminaires to suit the known layout of the work stations. The main object was to avoid reflections in VDUs. The final design is said to satisfy CIBSE technical memorandum 6, Lighting for visual display units. Details from R Lacey 0952-586818.



TSB has plumped for Energy Conservation Systems' mains signalling controls to regulate the lighting in its new Andover headquarters. Illumination is provided by Thorn uplighters fitted with 250W SON DL lamps. The system is set up to take account of the amount of daylight entering the building, as well as turning the lights off at preset times. Further details available from ECS 01-751 6514.

NEW PRODUCTS

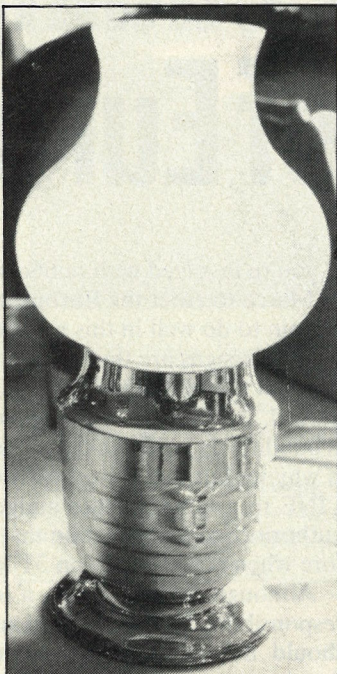
Metal spinners for living lights range

Katrin (UK) is manufacturing the bases for a new range of living-light table lamps from the Dine-Aglow Division of ICP Ltd.

ICP's Light-a-Lamp range has been specifically designed to UK caterers, hoteliers and restaurateurs. Their brass, copper and silver-plate bases are now being manufactured by the old-established metal spinning firm The Winward Co Ltd, Winson Green, Birmingham. The Light-a-Lamps' attractive hand-blown shades are supplied by one of Britain's leading manufacturers of crystal glass.

Says ICP's marketing director Malcolm Adams: "Winwards have superb in-house tooling, spinning, presswork and polishing facilities, and unbeatable expertise which will even further enhance the superior quality of the Light-a-Lamp range."

A sealed fuel cell provides the Light-a-Lamp's flame via a pre-set wick emits no smoke or odour. In the event of an accidental upset the



flame is instantly extinguished by a unique snuffing device.

Reader Service No. 172

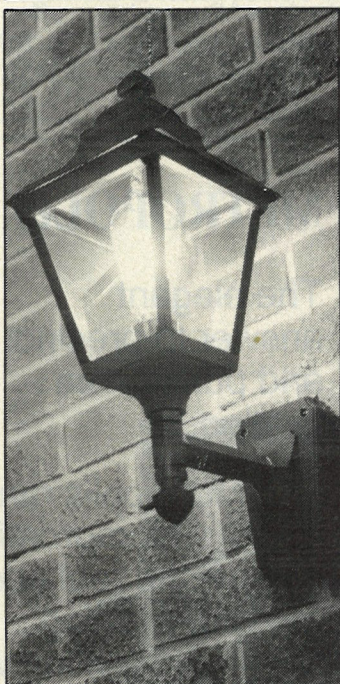
Par for the dance-floor

Soundlight Industries (UK) has introduced a new PAR36 lamp aimed primarily at the discotheque market.

This PAR36, the 2000HR, has a near parallel beam, is guaranteed for 2000 hours and uses a Thorn M34 6volt 20W halogen lamp. The 2000HR has the same brightness as sealed beam PAR 36's, but with a specially coated reflector to prevent tarnishing, and a removable hardened glass front. This enables the burnt-out M34 to be replaced from the front without removing the whole unit.

The 2000HR is also available in 12V 20W form.

Reader Service No. 167



Traditional finds a niche with Felton

Felton Electric lighting has launched its first volume production: the Royal traditional lantern.

The Royal is available in sand-cast finish, matt black or white. The die-cast aluminium is treated to allow Felton to offer a ten-year guarantee against corrosion. Lamps accepted are 100W gls, SL18 or a version with a built-in ballast.

Reader Service No. 176

As Twilite falls . .

Latest addition to the Loblite range of totally enclosed luminaires is the Twilite. A compact solid state photo-electric sensing and switching assembly can be incorporated in a number of their popular luminaires. This controls both incandescent and fluorescent light sources and gives "on at dusk — off at dawn" lighting.

A colour leaflet is available giving details of the range of plastic and pressure diecast light alloy bulkhead luminaires with a selection of plastic or glass diffusers.

Loblite's wellglass type luminaires have also become available with photo-electric controls.

Reader Service No. 153

Lighting control switches at 30 minute intervals

Twenty-four hour control of lighting with remote sensing is provided by a unit from Elkay Electrical Manufacturing Co. Ltd.

The control unit/timer is designed to be fitted in an enclosure. It operates at temperatures from -10° to +50°C. Lights can be switched at 30 minute intervals via a quartz movement and there is a power reserve of 30 hours. Switching capacity is 10A.

The sensing head can be positioned up to 100m from the control unit. It has an ingress protection rating of IP64 and a temperature endurance range of -30° to +60°C.

Reader Service No. 178

KSH gets tough

K-S-H Plastics (UK), Huntingdon-based suppliers of the K-Lite range of precision lighting panels, has introduced a clear polycarbonate prismatic lens to the range.

Designated type H12PC, the new lens offers considerable improvements over lighting diffusers in an opal finish and with the strength features of polycarbonate, provides the ideal panel for security locations and those in which vandal-proof materials are specified.

Aimed at public areas, schools, leisure centres and sports complexes, K-Lite H12PC panels can be supplied in sizes up to 762mm x 1830mm in thicknesses of 3.1 or 4.7 mm.

A new series of brochures and data sheets detailing H12PC and the many other specialist lighting panels within the K-Lite range are also available.

Reader Service No. 173

Infra-red sensor goes in for heavy duty

Elkay Electrical has launched a heavy-duty passive infra-red control, called Sensoround.

The unit, which has a 20m range, can switch up to 16A (4kW) through each of two out-



puts. It is rated at IP65, and has a 90° scan area.

The unit detects body heat, and depending on the model chosen, outputs can be controlled by ambient light levels and body heat, or body heat only.

Reader Service No. 158

For more information on any of the products listed above, circle the enquiry number on the free reader reply service card.



Spotlights go into orbit

The Orbit range from Hitech plc consists of two styles of miniature spotlight in a choice of white, black, chromium and gold colours.

Low voltage tungsten halogen lamps are used. Model S920 can be used with lamps up to 75W.

The S920 is styled like a tiny top hat and can be suspended from standard, flush and grid ceiling plates, or track mounted.

S910 has a fully exposed lamp with a cylindrical housing over the lampholder. It is supported on a knuckle-jointed stem attached to either a standard, flush fitting or grid ceiling plate, or alternatively to a lighting track adaptor.

Reader Service No. 171

Security system gives better detection

The Sensor control and detector, part of the Sensor Security range of automatic lighting systems by Smiths Industries Environmental Controls Co Ltd, has been improved.

It differs from its predecessor by having a remote sensor to give better detection of intruders from whichever direction they approach. The sensor can be located up to 50m from the control unit.

These smaller units can be installed in even the most awkward positions, says Smiths, enabling every corner of a property to be protected. A robust casing ensures the long working life of the system.

Reader Service No. 166

Lighting controller aimed at industrial use

The new range of type CX Lighting Control Centres from DEM Controls has been introduced. The CX controller is designed around the DEM photo-electric system of control, which uses indoor sensors to measure the illumination level on the working plane.

The type CX Lighting Control Centres are intended for use in industrial and commercial premises which operate on a continuous 24-hour, 7-day-week system where time control is irrelevant.

The Control Centres can be

provided with switching capability up to 60A three phase or with low current output for use with existing contactors.

An override feature is provided to allow staff to switch on lighting early before the daylight has declined to the normal switch-on level.

The CX Lighting Control Centre is suitable for use with most BEMs which are capable of providing time programming, remote manual functions and monitoring.

Reader Service No. 157

Floodlights offer easy maintenance



Most recent additions to the range of floodlighting made by Abacus Municipal Ltd, the AM500, 520 and 550 series, incorporate advanced features.

The AM500 series comprises six models of asymmetric distribution floodlights for use with discharge lamps up to 400W. Available in two housing sizes — 450mm square and 450 x 330mm — these units have an electro-polished, anodised and sealed aluminium reflector mounted in a rugged aluminium housing.

Of similar construction, the AM520 series uses discharge lamps up to 1000W. With a choice of sizes, either 680 x 680mm or 680 x 500mm, this series comprises nine models offering wide or narrow beam light distribution with integral or remote control gear.

Reader Service No. 177

Ambassadors now have two legs

Tally Ho Lighting Co has extended its Ambassador range of decorative lighting by the addition of twin-stemmed luminaires.

This applies to a floor standard, rise-and-fall pendant and two table lamps. They all have large, mushroom shaped shades.

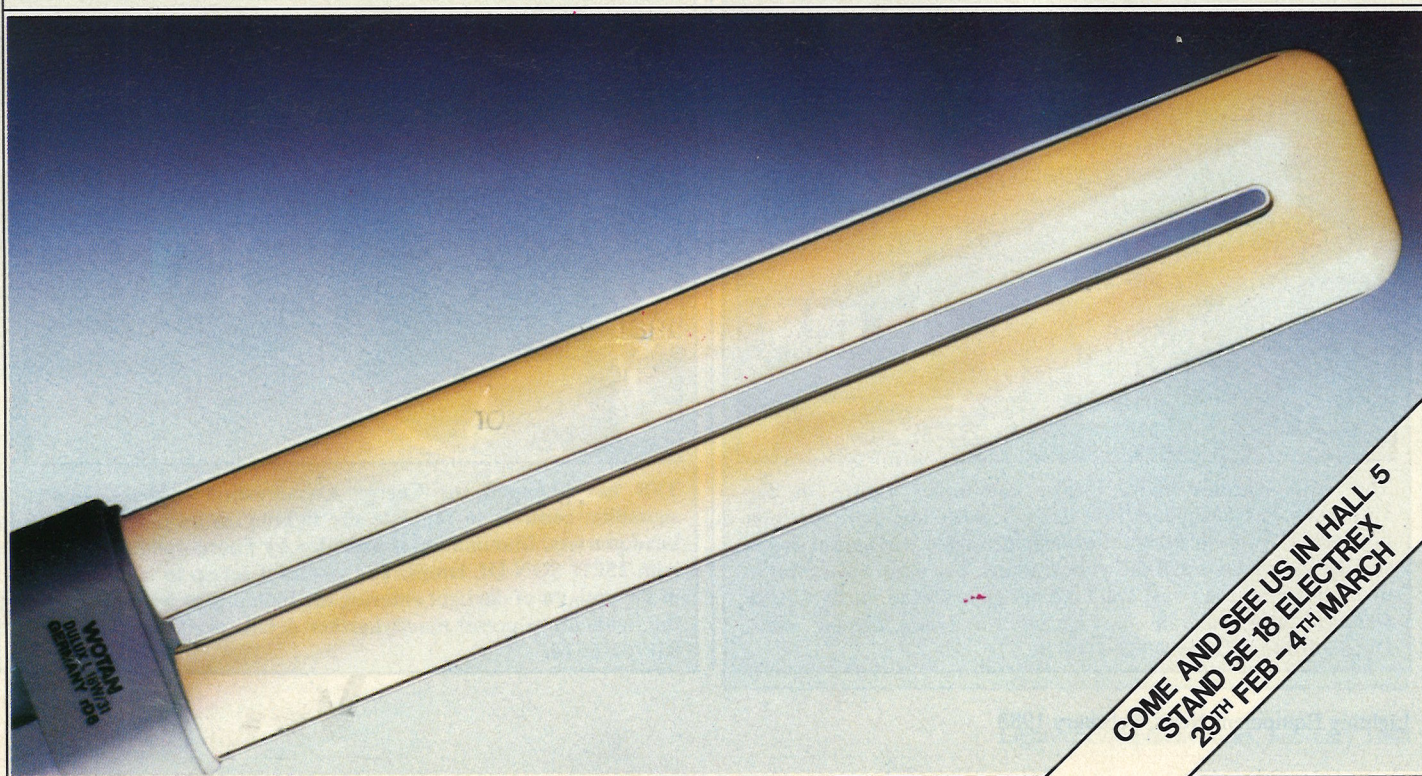
There is a choice of finish, either a combination of polished and matt brass with champagne coloured Shantung shade, or a



mixture of polished brass and nickel with a white imitation silk shade.

Reader Service No. 174

MORE SPIELRAUM* FOR LIGHT:



COME AND SEE US IN HALL 5
STAND 5E 18 ELECTREX
29th FEB - 4th MARCH

Smiths adds internal wall switch

Smiths Industries Environmental Controls Company has added the DL05 sensor switch and detector to the newly-launched Sensor security range.

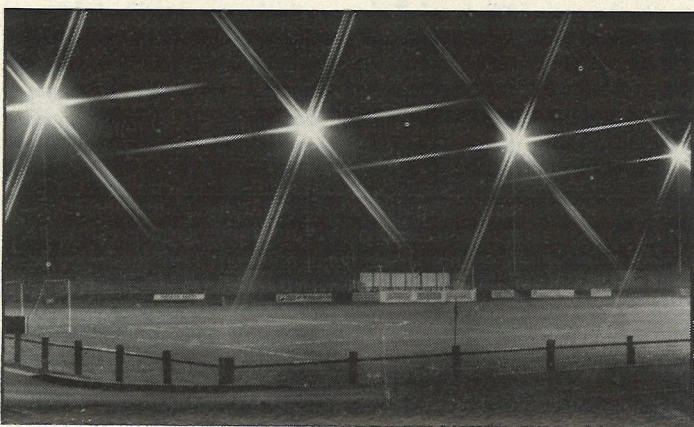
Smiths Sensor Security products provide outside automatic security lighting for domestic or commercial properties. Lights are automatically switched on when an infra-red detector senses the body heat of an approaching person. The Sensor security products will both deter intruders and welcome guests.

The new sensor switch and detector is installed inside the home, replacing the internal wall switch for an existing exterior light. It is supplied with a passive infra red detector, the sensor detector, which is fitted outside and has a detection

range of 12 metres over a 90° field. Sensor switch offers three modes of operation. It can act as an automatic security light, switching on when a person approaches and then off again after a pre-set period of between a few seconds and several minutes; the light remains on as long as a person remains within the detection range. Alternatively, Sensor switch can be used to turn outside lights into an automatic dusk-till-dawn light or as a normal, on/off manually-controlled lamp.

Reader Service No. 159

For more information on any of the products listed above, circle the enquiry number on the free reader reply service card.



Abacus is counting on new sports column

Abacus Municipal has launched a new sports lighting column, aimed at clubs with limited funds.

The column, which can be up to 15m, is based on an existing design. It is a raising and lowering unit,

enabling both the column and the light fitting to be maintained at ground level. The operation can be carried out by one man using a single arm raising and lowering unit.

Abacus is offering a turnkey package, from lighting design through to commissioning.

Reader Service No. 151

Varolux outdoor lantern

Ring Electronics has added the Varolux outdoor lantern with photocell control to its commercial lighting range.

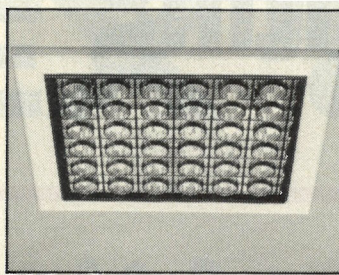
The Varolux uses a PL9 lamp,

which gives the same light intensity as a 60W lamp, with an average life of 5000 hours, lasting five times as long and using only 25% of the power equivalent of an incandescent lamp. This energy saving capability is further enhanced by the photocell control, switching on at dusk, off at dawn.

Reader Service No. 164

Modular fittings use 38W 2D lamps

Matrix is an addition to Thorn Lighting's range for 38W 2D compact fluorescent lamps. The square, recessed luminaire has a wide choice of prismatic, opal and louvred controllers. The low brightness louvres are offered in square and conical styles, with either gold or silver coloured finishes.



The fitting is stated to be easy to fit. It is designed for 300mm² modules, offering a more compact alternative to conventional linear fluorescent luminaires.

Reader Service No. 163

Floodlights have low profile

Floodlights suitable for mobile applications where head room is limited and wind resistance needs to be minimal are available from Floodlight Services.

The fully enclosed, tungsten halogen luminaires have an overall

height of less than 240mm. A group of four luminaires give beam patterns that ensure all-round illumination, although each fitting is independently adjustable. Toughened glass "windows" safe-guard operators.

Emergency, rescue and general scene lighting, along with construction work are the principal uses.

Reader Service No. 180

Lighting for supermarket goods

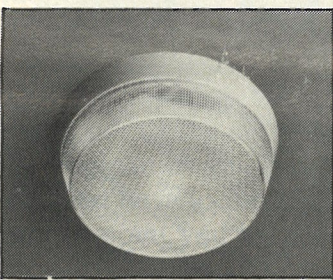
The special lighting requirements for the display of supermarket goods have led to the design and production of Shelflites by Less Lighting.

The Shelflites family of fittings provides asymmetric lighting for display units.

Less Lighting of Harringay, a specialist lighting service company, has produced a range of continuous and modular fluorescent lighting fittings for use adjacent to supermarket display cabinets. The fittings, in twin and single-lamp form, are designed to provide high levels of even illumination over the full spread of displayed products. Available with choice of control gear, Shelflites can be supplied colour coded to the needs of the client.

Reader Service No. 169

Hylites and Lo Luminaires



Existalite Ltd, the Romford-based manufacturers of luminaires and emergency lighting equipment, has announced the availability of two

new luminaires designed to complement their Hylite range: the WPK and LO models.

Both units are suitable for outdoor use and are supplied with IP ratings up to IP65 (dust tight/jet proof).

The WPK, a circular decorative polycarbonate fitting, features a white base and clear prismatic diffuser. The unit is available for mains only, non-maintained or maintained operation using the 28W 2D lamp, and having a duration of 3 hours in emergency mode.

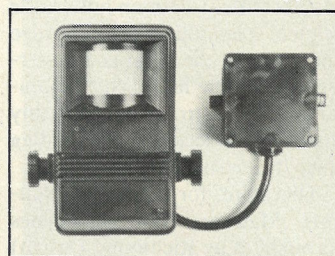
In standard trim, the WPK is suitable for outdoor use in unexposed positions (IP23 rain-proof) or may be specified up to IP65.

Reader Service No. 197

PIR security sensor from Powerlite

Powerlite Electrical Products has launched the Powerscan 2000 passive infra-red security sensor. It is triggered by body heat or movement, and switches up to 2000W without additional relays, for security or domestic applications.

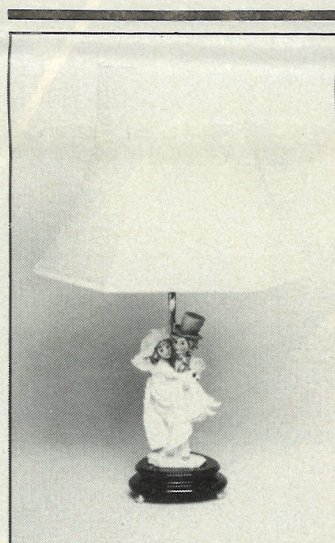
Manufactured to IP54, the unit is fitted with a photocell to ensure that lighting is not switched during daylight hours. Its camera-like appear-



ance with flashing LED is intended to ward off intruders both night and day. In a domestic setting, Powerscan can be used to provide courtesy or amenity lighting, switching lighting for 5 minutes after the last detected movement.

The sensor is housed in an injection-moulded polypropylene casing, sealed with six tamper-proof screws and gasket. This housing is factory-sealed, and does not have to be re-opened, since the Powerscan has a remote wiring box with knock-outs, which allows installation without the need to tamper with the unit's circuitry. Setting-up is made easy too, as the flashing LED can be used to test the unit without constantly triggering lighting.

Reader Service No. 165



Figurines figure at Hadrian

Hadrian Lighting has five new designs of Armani porcelain figurine table lamps in the Valentine series. These are: Dolls' Bedtime, Flower Girl, Girl on a Swing, Children Holding Kitten and Umbrella, and Young Love.

Other ranges have also been extended, including the Magic Memories (illustrated) and Wildlife series.

Reader Service No. 160

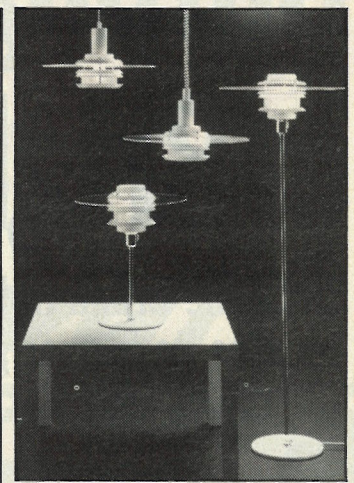
Bright Nites

Roomer products of Wetherby, West Yorks, has designed and is manufacturing a new night light.

British made, it is based on a range of interesting and attractive subjects. First come the ladybird, strawberry, toadstool, elephant and so on up to the snowman and Santa Claus.

The lights sell under the trade name of Bright Nites. There are twelve designs. Selling price is £3.45 or less.

Reader Service No. 155

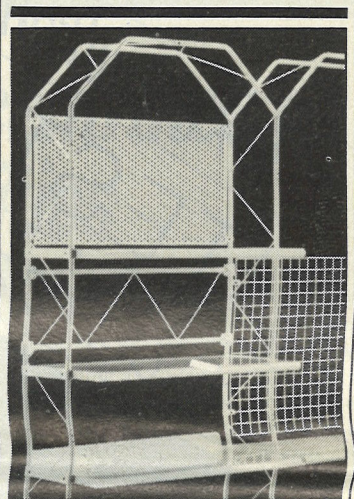


Danish designs come to UK

Sirius range of Danish decorative lighting is available from Gilway Interior Designs. These modern designs, made by Lyskaer, consist of white painted metal and clear acrylic. They accept lamps up to 60W.

There is a pendant, rise-and-fall fitting, floor standard and table lamp.

Reader Service No. 161

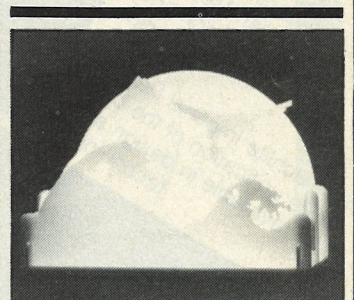


Fresh lattice

With the miniaturised look very much in mind, Targetti has introduced a system called Unica, obtainable from C & R Lighting Systems.

A reticular beam, consisting of 16mm diameter tubes interwoven with 4mm diameter lattice spars, this package lends itself to a variety of structural environmental uses. A 21-page brochure shows elements include vertical and horizontal arches, Y — two way joints, horizontal and adjustable curve kits. Metal bases, wall and ceiling mounting brackets and steel wire suspension kits are the 'fixing' alternative.

Reader Service No. 168



Add a distant sky to the home

Skyline is the name of a range of table lamps from the Green Tree Lighting Co. The inspiration comes from the skylines of places such as Japan (illustrated), Manhattan, London and Casablanca.

Opal acrylic silhouettes are lit by two 25W SBC candle lamps to produce a three dimensional effect.

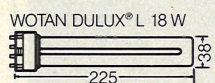
A pleasing background light is given and the table lamps add an extra decorative element to a room. Dimensions are 290mm wide by 200mm high.

Reader Service No. 162

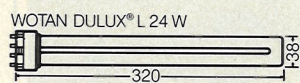
WOTAN DULUX® L.

The conventional fluorescent lamp leaves architects, light designers and planners with little scope to be creative with light.

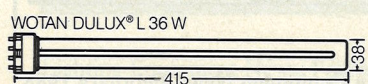
With WOTAN DULUX® L lamps, it's different, you have more room to play with. They have the same lumen packages as conventional tubes, but are approximately two thirds shorter in length. For example, a 36W WOTAN DULUX® L compared to the



18 W = 1200 Lumen



24 W = 1800 Lumen



36 W = 2900 Lumen

equivalent 1200 mm tube measures only 415 mm but is almost as bright.

They are available in three wattages and colour appearances: MAXILUX® White, MAXILUX® Warm White and MAXILUX® INTERNA. With a single 4-pin base the WOTAN DULUX® L is suitable for conventional as well as electronic HF ballasts, saving energy as well as space.

Even for grid ceilings new concepts can be developed, or smaller, single fittings can be used.

The smaller the lamp, the greater the spielraum*.

*SPIELRAUM: More room to play with.

WOTAN

Reader Service No. 6

WOTAN Lamps Ltd., 1 Gresham Way, Durnsford Road, London SW19 8HU

Buffing up lighting in Brighton

Since the Grand Hotel was bombed, it has been rebuilt to surpass its former glory. *Maurice Brill* and *Lighting Workshop* describe the refurbishment.

October 1984 will be memorable to many people for the horrific and dramatic scenes of the Brighton bombing. Probably not so many have since given thought to what was involved in the massive reconstruction and refurbishment operation that followed, which took place over a period of around 18 months and involved a prolonged and concerted effort by a multiplicity of companies.

The aim, once the structural

work had been repaired to the bomb blast damage, was not only to restore the Victorian hotel to its original splendour, but to improve and upgrade the hotel and its services to a new high, whilst maintaining the strong individuality that had characterised the building since its construction in 1862.

Therefore, for lighting consultants Maurice Brill Associates (brought in by Richmond Design) there were restrictions. Their brief applied to the hotel speciality areas

rather than corridors and bedrooms, but the practicality of the installation in some of these areas due to ornate ceilings, for example, was not always possible. Also the refurbishment, at all levels, had to be kept strictly within the period style, and the lighting had to be sympathetic to the interior mouldings.

There was a requirement for impact without detracting from the main theme, which was classical and traditional. Moreover, the

designers at MBA were only involved in the design of the modern supplementary lighting; choice of the ornate fittings which formed much of the ambient lighting throughout the areas was out of their hands.

MBA decided that simplicity was the key to the project, applying a light source only where necessary to achieve maximum effect. This was to be achieved by balancing both uplighting and downlighting with ambient lights as a means of illustrating the beauty of the spaces.

Bar Terrace

The Bar Terrace was a typically Victorian design. A covered interior leading to glass-covered terrace, where there was profusion of natural light during the day.

MBA applied 15 x 12V 50W directional downlighters, with a 13° beam, in rows running along the edge of the ceiling line (at the point where the concrete ceiling ended and the glass structure began), the idea being that the light beam control could be angled to pin point and highlight table areas.

Additional lighting came from a



Entrance foyer reception.

row of 500W tungsten-halogen uplighters running along the back wall of the interior. So apart from the tightly controlled light on the tables, much of the room was lit indirectly, and the room had a subdued calm mood about it.

To add an element of interest and colour in the walkways leading to the terrace, 50W low-voltage downlighters were placed in the ceiling above the doorways, and aimed to shine directly on the carpets for greater intensity of colour. The carpets were themselves a feature worth highlighting, since 10 000 yards had been especially designed and woven in patterns ranging from a Persian to a Regency style, for the reception areas, corridors, stairways, restaurants and bedrooms.

Lounge

Lounge area employed a similar principle using six 50W downlighters that were positioned directly on to the carpet in the centre of the room. The relevance comes from the fact that it is specific lighting that supplemented the more general ambient light generated by table lamps on tables and by sofas. Additional sources were picture light fittings on the walls giving indirect light.

Reception Foyer

In the reception/foyer/entrance area there was a greater need to create, maintain, and emphasise the traditional origins of The Grand.

Obviously first impressions go a long way in establishing an image. The ambient light had been created by one centrally positioned crystal chandelier, two supplementary glass lanterns, a table lamp on the reception desk and lanterns mounted along, and at the bottom of, the handrail leading down the main stairway to the entrance.

MBA concentrated therefore on two specific target areas where they felt direct supplementary lighting would create impact. This was firstly at the entrance where six 12V 75W downlighters were positioned above the main doors to give brightness and secondly, the reception desk where a number of 12V 50W spotlights were positioned behind the desk and

three wall-mounted uplighters on the back wall behind the desk. This made the reception a natural focal point of the area.

The restaurant areas were again liberally fitted out with ornate fittings that focused on a central chandelier, positioned over the self-service gondolier. MBA then applied more specific lighting to create variety, interest and impact. A major structural feature of the room was a series of columns. They were lit from the ceiling downwards by 50W downlighters, on just two sides of the pillar, that created shadow on the other sides, giving shape and form. Similarly central display plants were back illuminated by 50W downlighters.

For the inner restaurant, a Concord spill-ring downlighter was installed to give a low ambient light, while picture lights added to the warmth and softness of the ambience, and a sharp contrast was achieved therefore by highlighting the gondolier, columns and free-standing planters.

The hotel owners, De Vere's, wanted the last speciality area, the ballroom, to be used both for entertainment purposes, and increasingly for conferences; its dual function had to be catered for, and therefore there was a need for high even ambient light. Eight 500W tungsten-halogen uplighters on an Electrosonic dimmer control system and a track spotlight system with 12V 50W spotlights above the top table positions, provided a variety of even ambient light intensity, with the options to highlight objects on the top table as and when necessary.

The idea of mixing traditional and modern lighting by maintaining all the classical features and supplementing and highlighting was successful both aesthetically and functionally.

The brief was achieved, energy efficiency was to some part possible, with the installation of low-voltage lighting, and the marketing objectives of the hoteliers were aided by the creation of an ambience throughout the interior that was appealing to the guests.

Information for this article was supplied by The Lighting Workshop, 01-240 0461.



Restaurant.

The Hamilton
L.I.T.E.S.T.A.T.
Collection

The English Range:
Edwardian Mercury.
A unique rich and
lustrous finish.

The Touchlite Imperial Range:
The unification of the best
available in design and
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The Accord Range:
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Modern finishes harmonising with
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ELECTREX '88



LIGHTING EQUIPMENT NEWS

Exhibition Pull-Out!

Activity advice from ASEE stand

The Association of Supervisory & Executive Engineers, a sponsor of Electrex, will be offering advice, information and literature on the activities of the association and its branches.

Full details can be obtained on the ASEE's diploma in engineering management (DEM), which can be studied at nominated technical colleges and through a distance learning scheme.

Copies of the association's journal, *Electrotechnical News*, will be available, as well as the DEM distance learning modules, and the ASEE guide to the 15th edition of the Wiring Regulations.

A feature of the stand will be the availability of information and forms for registration as an engineering technician and technician engineer through ASEE, which is a nominated body of the Engineering Council. 3C2

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Making light work of it

If you think making a visit to an exhibition truly worthwhile is difficult, then you should try writing about one.

The main aim in reporting on an exhibition is to provide a potted history of stands likely to be of interest. With Electrex, almost every stand has something to do with lighting, or at the least with the power supply.

So in this supplement, you will find the listings and the short items are selective. If you want a guide to Electrex, use the organiser's guide; if you want a guide to lighting only, then use this supplement.

Companies are listed according to four criteria. First, lamps and lighting; second, controls; third, suppliers of components; and finally, organisations involved. In the short items, stand numbers are at the end in bold.

At any exhibition, the temptation is to go only to those companies you know, chat to those old friends, and then retire to the *Greasy Spoon* for a quick egg and chips. The purpose of the supplement is to alert you to the companies you have never heard of, the products you have looked for but never before found, and to point you in new directions.

NEC shows are always footsore slogs; try to make it a justifiable slog!

Electrex '88, 29 February-4 March.

Beama sponsorship on show

Beama, one of sponsors of Electrex, will be using the show to display the activities of the 17 federated associations that form Beama.

These 17 associations represent about 500 companies. Beama is the Federation of British Electro-technical and Allied Manufacturers' Associations.

Assistance will be given to visitors requiring information about member companies and their products, as well as details of the federation's forward exhibition and seminar programme. Advice will be given to prospective members on the benefits of Beama membership.

Beama is organising, on behalf of Electrex, with British overseas Trade Board assistance, the inward mission to Electrex of some 15 countries. 4A8

Size is everything claim

Electrex reports, as we go to press, that a "similar size exhibition to 1986 is now assured."

This year, 29 overseas countries are represented, against 25 in 1986. Fifteen senior engineering buyers from overseas will also be visiting the show.



Legato from Thorn, stand 5C16

Thorn concentrates on the inner cities

Thorn Lighting will be showing a range of new products aimed at amenity and security for inner cities.

A number of compact fluorescent and high-intensity discharge lamps will be shown, including Strada (18W linear compact fluorescent lamp) and Piazza (50 or 70W SON or 80W mercury). Strada is modular by design, and can be used wall mounted, post top or on a bracket. Both lamps are rated to IP65, and Piazza may have a photocell option.

Besides the inner city focus, Thorn Lighting will show its range of metal halide, low-voltage tungsten-halogen (lvth), compact fluorescent and emergency and security lighting.

The metal halide range includes the 150W single-ended metal halide lamp, from the Arcstream

range. Thorn's Legato uplights (above) were designed with this light source in mind. Future luminaires for this lamp will be shown, including a display footlight.

The lvth range will include the Electronic PAR lamp, which is a lvth replacement for conventional 80 and 150W PAR lamps. The lightstream range of both 35mm and 50mm luminaires will be on the stand. Luminaires for the Thorn compact fluorescent lamps have been increased in number, including office modular luminaires, called Matrix.

The Invincible series of industrial and emergency hostile and hazardous area luminaires will be extended. A Zone 1 IP66-rated flameproof fitting, and Sprint, a corrosion-resistant IP65 fitting for high humidity conditions, will be on show. 5C16



DISPLAY LIGHTING IS IT AN ART OR IS IT A SCIENCE?

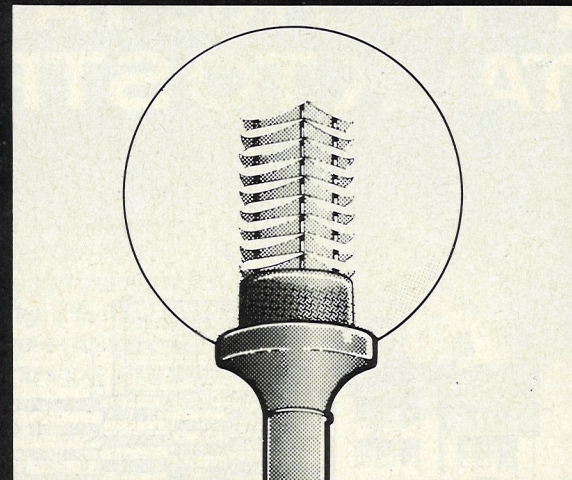
At Crompton Parkinson we believe it's the technology that counts; the quality of manufacture; the attention to detail. Like non-corrosive brass caps, external colour glazing, and the high quality lacquered vacuum lamps, which are ideal for use outdoors.

To prove the point it's well worth noting that Crompton Parkinson is the first lamp manufacturer to achieve the coveted BS5750 Part 2 registration for the manufacture and inspection of its products and that means dependable quality and consistency.

Reflectors, Crown Silvered, Harlequin and Colourglazed for interior and exterior use, Candles, Rounds—naturally there's the range you expect from a manufacturer of our standing. So here's an end to the debate—if you're a lighting specialist we'll count on you to inject the artistry and we'll provide the science.

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LAMPS

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Woodlands House,
The Avenue, Cliftonville,
Northampton NN1 5BS.
Telephone: 0604 30201 Telex: 31364.



A-M-E-N-I-T-Y L-I-G-H-T-I-N-G

These attractive, vandal-resistant spheres are just part of the brand new Abacus range of more than 123 different luminaires for every possible lighting situation. If you'd like our comprehensive literature pack please use the Reader Service Card or ring 0623 511111 - it could make illuminating reading!

Abacus

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Original touches from Smart & Brown

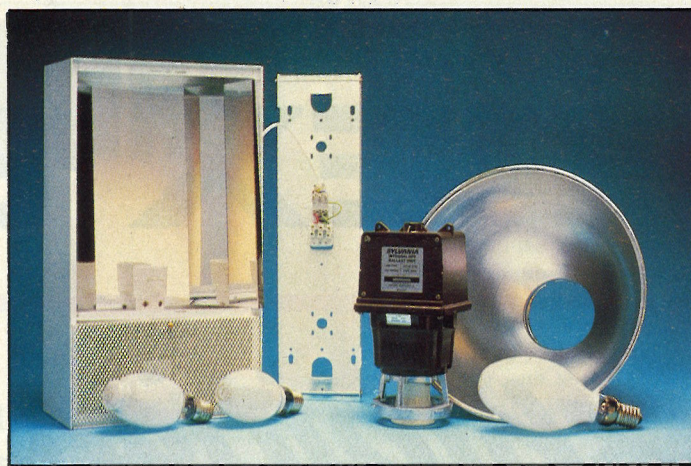
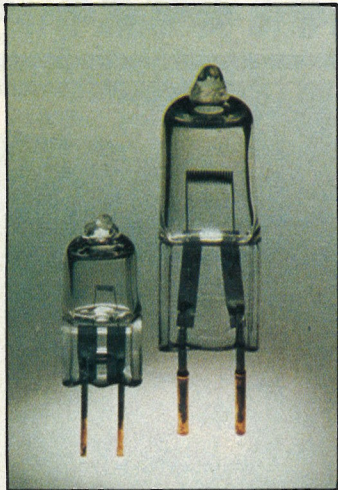
The original equipment manufacturers' division of Thorn EMI Lamps & Components, Smart & Brown, is launching a series of new products.

In the display field, a new range of 12V 150VA electronic transformers will be introduced to complement the present range of 12V 50VA devices. Such electronic transformers are about half the weight and size of conventional transformers.

The 35mm Lightstream range of low-voltage tungsten-halogen (lvth) lamps has also been revamped. The lamp base has been made rectangular and slotted, to engage the Thorn GL1227 lamp-holder, without needing any further retaining mechanism. Smart & Brown says this should lead to smaller and cheaper luminaires. The leading edge of the lamp has also been adapted, to allow clip-on filters to be added.

Smart & Brown will also be

showing the new 70W version of Arcstream, Thorn Lighting's compact metal halide source. The 70W lamp will be available in both 3000K and 4000K; the 150W lamp, presently available as 3000K, will soon be launched in 4000K form. **5C15**



Sylvania sets up six thousand

GTE Sylvania will be showing lamps and lighting from its range of more than six thousand items.

Sylvania is not revealing advance details of the products due to be launched at the show, but coyly says that the company will be honouring the "pledge to offer efficient lighting solutions, introduced at the last Electrex". There will be

practical displays on the stand, using incandescent, high-intensity discharge, fluorescent, compact fluorescent, and tungsten lamps.

Various Sylvania fittings will also be on display, in particular the Sylbay high and low-bay industrial luminaires.

Contact on the stand will be Vanda Villis. **5D9**

Concentrating on commerce and industry

Thorlux Lighting (the trading name of F W Thorpe plc) will be exhibiting its range of industrial and commercial lighting equipment.

This includes fluorescent luminaires, industrial circular luminaires, floodlights, bulkheads, emergency lighting and type N equipment for Zone 2 areas.

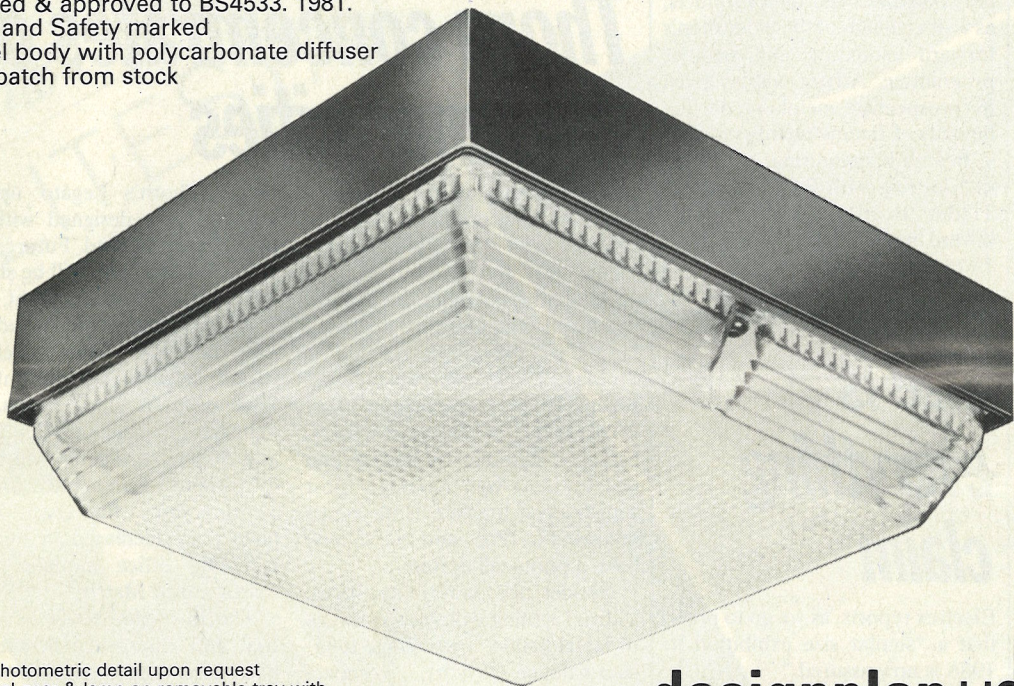
Thorlux says that items of particular interest are the Combo 2 range of circular reflectors with integral ballasts for high-bay use, the Azmet 3, an area floodlight for

spigot or wall mounting, and classified to IP65, Passlight wall-mounted luminaires; and the vandal-resistant Vandalux bulkhead.

On display for the first time will be a low-bay luminaire, Compact 2, with a re-designed reflector; a projector floodlight for use with tubular discharge lamps up to 400W; a wall-mounted uplighter; and a projector floodlight with 760mm diameter reflector, enabling 2kW MBI/T lamps to be used. **5B19**

Quadrant Bulkhead

Tested & approved to BS4533. 1981.
Kite and Safety marked
Steel body with polycarbonate diffuser
Despatch from stock



Full photometric detail upon request
Control gear & lamp on removable tray with plug & socket fused connector block
Power factor corrected
Provision for conduit entry at top and ends
Semi or fully recessed versions available
Complementary emergency range for self contained or slave operation

designplan LIGHTING

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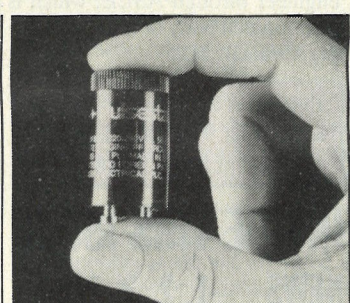


Eterna displays from Eterna

Eterna Lighting will be exhibiting a large number of products for the first time at Electrex.

A range of low-voltage tungsten-halogen downlights will be introduced, including ultra-slim versions, claimed to be particularly suitable for display cabinets.

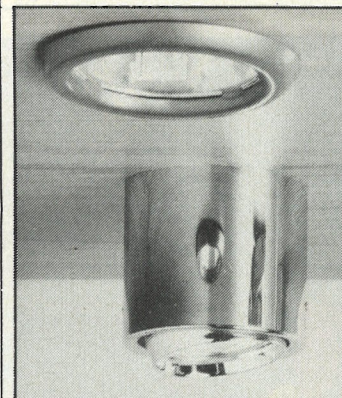
Detectorlight will also be featured, with ranges of downlights,



Worth watching, or watt?

Arlen Electronics will be showing a series of new energy-saving lamp control gear and accessories.

The company's Watt Watcher system, combining solid-state electronic ignition with ultra-low energy ballasts, will be on display. The Arcotronic adaptor, a light-weight high-frequency adaptor for the conversion of standard gls outlets to fit compact fluorescents, can be seen on the stand. **5F34**



striplights, spotlights and glassware. New lanterns with photocells will be shown for the first time. **5B30**

Taking a tough line on vandals

Designplan Lighting will be displaying lighting equipment designed specifically to meet the challenge posed by today's vandal.

In addition to the Sparta, Tuscan and Rampart ranges, new products on show will include the Monitor, Tuscan II and Brunel luminaires. The Quadrant energy-saving bulkhead will accompany these. **5E42**

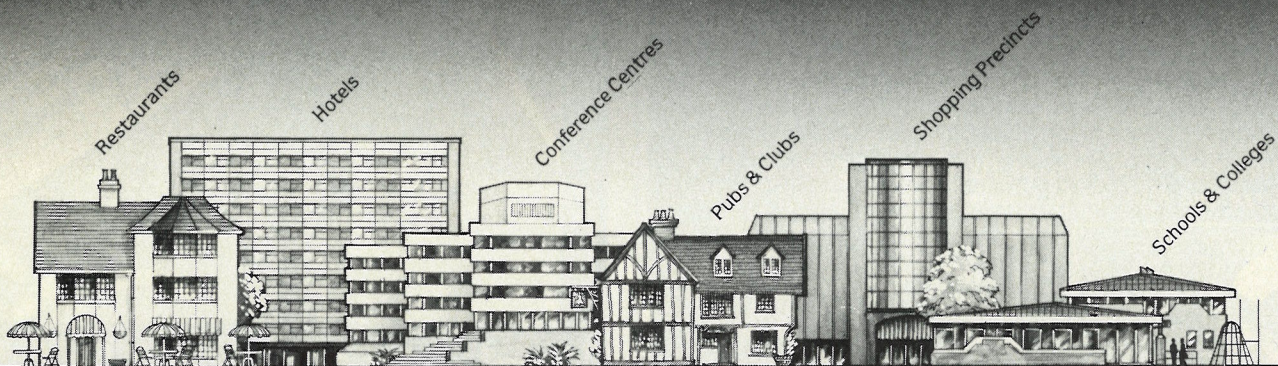
Dim view of a bright idea

Electrosonic will be launching the next generation of its Digidim lighting control system.

Digidim 2, an architectural lighting controls device, features plug-in, self-contained power dimmers and contactor modules for control of tungsten, low-voltage and fluorescent light sources. It is also able to handle both high- and low-intensity discharge sources.

Within the Digidim 2 system are updated versions of the programmable Multiscene and Scenaset processors. Electrosonic will have demonstrations of the lighting controls on the stand. **5A16**

IF YOU'RE TALKING DIMMERS TALK TO STRAND LIGHTING



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The Environ range of Dimmers and Controls for all commercial lighting applications:

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Telephone 01 560 3171, Telex 27976, Fax 01 568 2103

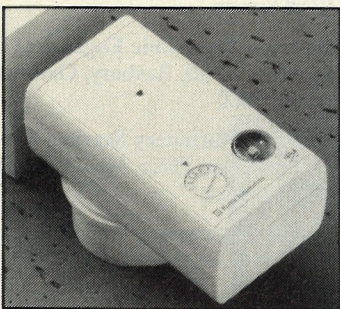
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Making things dimmer, automatically

Home Automation will be showing a series of dimmers, for both the home and the export market.

Several products will be on show at Electrex for the first time. Studio series light dimmer packs, commercial high-wattage light dimmers for the control of tungsten lighting up to 5kW, low-voltage lighting and fluorescent lighting up to 2.5kW, will both be on display. The company says that no further modifications are needed with fluorescent installations except where electronic dimmable ballasts are used.

Table lamp dimmers, up to 250W, will be demonstrated, as will the Watchman passive infra-



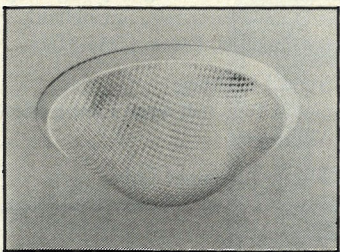
red switch, which has a 15m range with a 90° detection angle. The detector is able to switch connected loads of up to 2kW, and has an adjustment to change the time lights remain on after tripping. **5B6**

All L's let loose; Linolite and Lumiance

Linolite and Lumiance will be sharing a stand at Electrex. Linolite will show off its Shavolites, Skeleton Strips and striplights, while Lumiance will concentrate on accent and energy-saving lighting.

Linolite's new Aquarius range of circular ceiling and wall mounted luminaires will form a special feature on the stand. The luminaires are vandal-resistant, and can be fitted with a choice of diffuser. Either incandescent or 16W or 28W 2D compact fluorescent lamps may be used.

Lumiance will be exhibiting a range of track spotlights, downlighters, wall and ceiling lights, fluorescent systems and tasklights. **5D10**



Plato, a compact-fluorescent luminaire, will have its first Electrex outing. Two versions, the Deco or the Diffuso, are available, with either white or brass bases, switched or unswitched. The Giotto range of energy-saving fittings will have additions to the range unveiled at the exhibition. **5D10**

Ring reveals a pack of products

Ring Electronics will launch three new products at Electrex.

An emergency version of the Brick lamp will be revealed. The luminaire is an anti-vandal, splash-proof unit designed for security lighting in stairwells, walkways, and outside.

A new version of Ring's Flash point system, with an infra-red control device, will be launched

and will be shown, and this can be added to any of the Ring standard emergency luminaires.

Finally, the company is introducing a modification kit for fluorescent lighting to be used in the emergency role. The modification kit allows the lamp to produce high light output for the first five minutes. The kit suits both compact and standard lamps. **5E30**

Emergency rôle follows the takeover

Secundalux, recently taken over when FKI bought Babcock International, will be showing a range of emergency lighting.

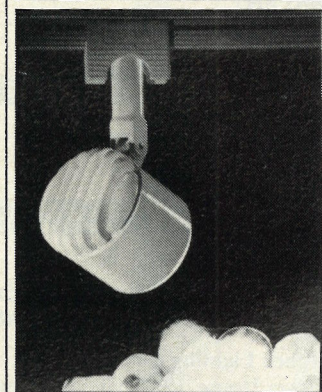
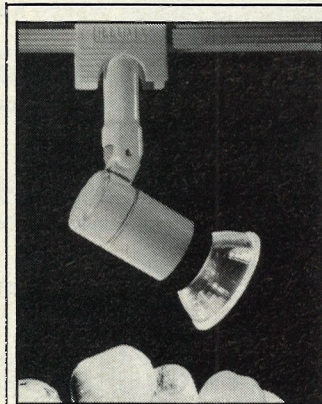
Products include maintained, non-maintained and self-contained luminaires, with slave units, mains units and ancillary items. The company also markets an ultrasonic test system, which resets the installation after the test. Decorative emergency fittings are said to be in the pipeline. **5D15**

Lab-Craft lures with holidays

Lab-Craft will try to lure specifiers with holidays vouchers, linked to purchases by electrical contractors.

The company specialises in fire safety products. On display will be a range of ICEL-approved single point emergency luminaires, with central battery and conversion modules. **3A4**

This supplement previewing Electrex is published as part of the February edition of *Lighting Equipment News*. For further information, month by month, on lighting developments, you can subscribe to *Lighting Equipment News*, or you may be eligible to receive free copies. Contact address is *LEN*, 1 Chalk Lane, Barnet, Hertfordshire EN1 0BU.

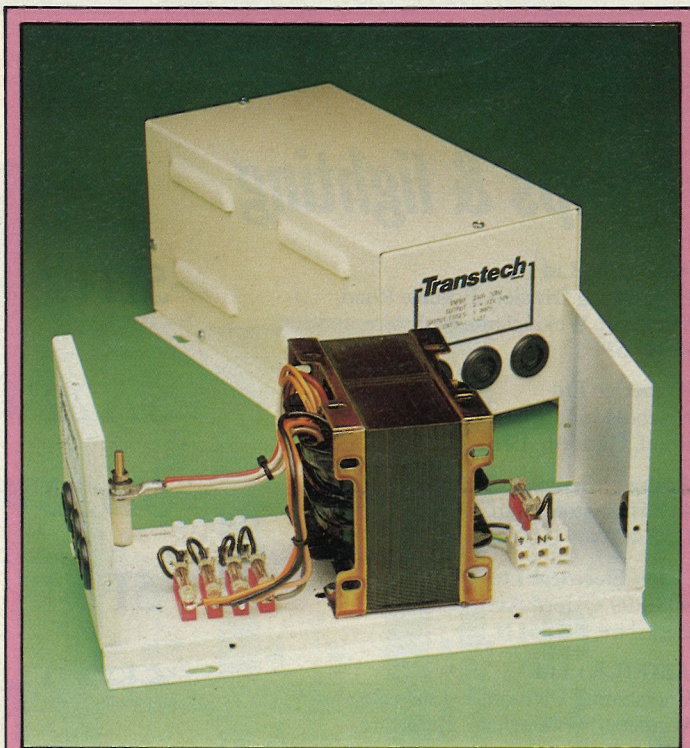


Illuma's low-voltage Mark-track system. Christie's elegant exhibition of the Camden artists 1905-1920 was lit using Mark-track. See stand **5C14**.

Saving on all those costs

Emlux Holdings will be showing lighting controllers, aimed at the energy manager.

A device called Autosave is claimed to save up to 15% of lighting costs, and included in the system is a thermal ramping device which is said to prevent thermal shock to the lamp filament. **5N8**

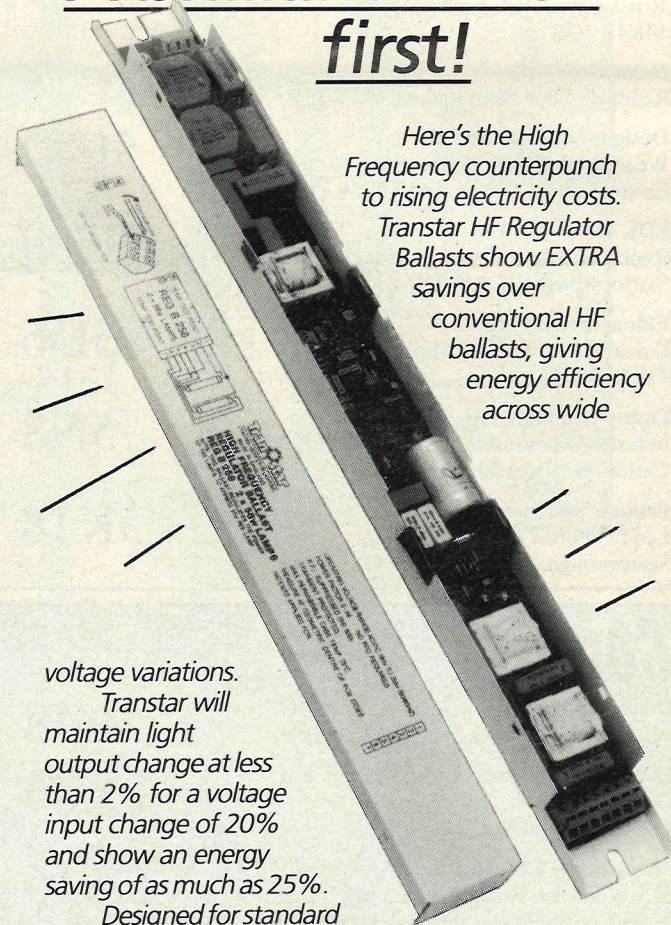


Transtech, specialist makers of ballasts, control gear and low-voltage gear, is on stand **4H39**.

NEW HF REGULATOR BALLASTS

EXTRA ENERGY SAVINGS FROM TRANSTAR

A brilliant British first!



Here's the High Frequency counterpunch to rising electricity costs. Transtar HF Regulator Ballasts show EXTRA savings over conventional HF ballasts, giving energy efficiency across wide

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Transtar will maintain light output change at less than 2% for a voltage input change of 20% and show an energy saving of as much as 25%.

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Transforming components for your needs

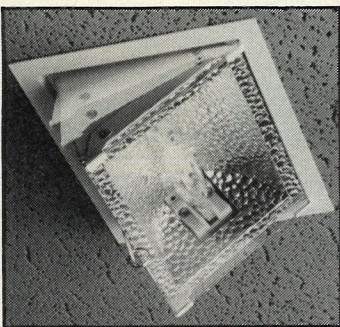
J M Clarke (Electrical Engineers) will be showing off its range of specialist transformers for the lighting industry.

These components include a new short-circuit and overload-proof electronic transformer. The company will also be showing a cross-section of sub-contract electronics. **4D3**

Switching to higher protection

Clipsal (UK) will be showing off its switching and other accessories, some of which offer IP56 protection ratings.

Clipsal will also display its Infrascan passive infra-red automatic light switching device, which uses silicon chip technology. It has both a long and a short-range version. **4G38**



Diadems seen in a shop window

LightGraphix is to show its Diadem range of metal halide lighting, aimed at shop window and display lighting.

The luminaires are designed for 70 and 150W lamps.

Recessed lighting from LightGraphix features a range of compact spotlights and Sapphire general-purpose downlights, for use with 20 to 100W lvth lamps. Recent introductions are a lvth 100W downlight, recessed downlight for 70W or 150W metal halide lamp; and continuous light systems, including festoons and light channels, with the well-known Tapelight system. **5D18**

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The next chapter...
ELECTREX '88 STAND No.5M2

HALL 5

Lamps & lighting

AEG (UK) Ltd Engineering Division, Eskdale Road, Winnersh, Wokingham, Berkshire, RG11 5PF	5H12
Amberlec Ltd Newbold Industrial Estate, Aberforth Road, Garforth, Leeds, LS25 2LD	5A22
Andrew Chalmers & Mitchell Ltd 447 Hillington Road, Glasgow G52 4QW	5D22
Arlen Electrical Ltd 808-809 Oxford Avenue, Slough, Berkshire, SL1 4LN	5F34
AEG (UK) Ltd Engineering Division, Eskdale Road, Winnersh, Wokingham, Berkshire, RG11 5PF	5H12
Bradley & Lomas (Electrical) Ltd Brook Works, Kent Road, Sheffield, S8 9RN	5A18
Briticent International Ltd Crow Arch Lane, Ringwood, Hampshire, BH24 1NZ	5B40
British Electric Lamps Ltd Spencer Hill Road, London SW19 4EN	5G21
Clare Instruments Ltd Woods Way, Worthing, West Sussex, BN12 4QY	5D2
Concord Lighting Ltd 241 City Road, London EC1	5G27
Concrete Utilities & Phosco Ltd Lower Road, Great Amwell, Ware, Hertfordshire, SG12 9TA	5D20
Crabtree Electrical Industries Ltd Promotions Department, Stockton Close, Walsall, West Midlands, WS2 8LD	5D8
Crompton Parkinson Ltd Woodlands House, The Avenue, Cliftonville, Northampton, NN1 5BS	5B18
Cryselco Ltd PO Box 21, Kempston Works, Woburn Road, Kempston, Bedfordshire MK42 7QB	5B37
Delta Group plc Reddings Lane, Birmingham, B11 3EZ	5E16
Designplan Lighting Ltd Wealdstone Road, Kimpton Industrial Estate, Sutton, Surrey, SM3 9RW	5E42
EDL Industries Ltd Redbrook Lane, Brereton, Rugeley, Staffordshire, WS15 1QY	5C30
Eldon Electric Ltd Lovett Road, Staines, Middlesex, TW18 3AH	5D6
Emlux Holdings Ltd Industrial Estate, Black Borton Road, Carterton, Oxfordshire, OX8 3EZ	5N8
Erskine Systems Ltd Lee De Forest House, Eastfield, Scarborough, N Yorkshire, YO11 3DU	5K18

Controls

Delmatic Ltd 119 Cleveland Street, London W1P 5PN	5E48
ECS Energy Conservation Systems Ltd Gresham House, Twickenham Road, Feltham, Middlesex, TW13 6HA	5E36
Electrosonic Ltd 815 Woolwich Road, London, SE7 8LT	5A16
Home Automation Ltd Pindar Road, Hoddesdon, Hertfordshire, EN11 0ET	5B6
Legrand Electric Ltd 18-20 Southfields Road, Dunstable, Bedfordshire, LU6 3EJ	5G14
Lytemode Ltd 3 Dawson Road, Mount Farm, Milton Keynes, MK1 1LH	5B26
MK Electric Ltd Shrubbery Road, Edmonton, London N9 0PB	5K16
Photain Controls Ltd Unit 18 — Hangar No 3, The Aerodrome, Ford, Arundel, West Sussex, BN18 0BE	5M20

Eterna Lighting Ltd Emily Place, Queensland Road, London N7 7DQ	5B30
Exem Lighting Division of Celab-Exem Ltd, Woolmer Way, Bordon, Hampshire, GU35 9QE	5D11
FKI — Metamec Ltd South Green, Dereham, Norfolk	5E27
Fael Luce UK Ltd Unit 2, Eastern Road, Aldershot, Hampshire, GU12 4TD	5B23
Fitzgerald Lighting Ltd Normandy Way, Bodmin, Cornwall, PL31 1HH	5C22
W J Furse & Co Ltd Engineering Division, Wilford Road, Nottingham, NG2 1EB	5L12
GTE Sylvania Ltd Otley Road, Charlestown, Shipley, West Yorkshire, BD17 7SN	5D9
General Electric — USA Lamp Department, 10 Prospect Way, Daventry, Northamptonshire, NN11 5PL	5E26
Gent Ltd Temple Road, Leicester, LE25 4JF	5J38
George Turnock Ltd Green Lane, Walsall, West Midlands, WS2 8HT	5J50
R Hamilton & Co Ltd Unit G, Quarry Industrial Estate, Mere, Warminster, Wiltshire, BA12 6LA	5J12
Hawker Siddeley Group plc 32 Dukes Street, St James's, London SW1Y 6DP	5B16 4G32
Helvar Ltd 1 Ealing Road Trading Estate, Ealing Road, Brentford, Middlesex, TW8 0QY	5B32
Hitech Lighting plc Tower House, Lea Valley Trading Estate, Edmonton, London N18 3HR	5B22
Holophane Europe Ltd Bond Avenue, Bletchley, Milton Keynes, MK1 1JG	5E22
Illuma Designs Ltd 24-32 Riverside Way, Uxbridge, Middlesex, UB8 2YF	5C14
Industria Technische Verlichting BC PO Box 569, 3000 An Rotterdam, Holland	5E29
JSB Electrical plc Manor Lane, Holmes Chapel, Crewe, Cheshire, CW4 9AB	5C18
Lampways Ltd Knowles Lane, Bradford, West Yorkshire, BD4 9AB	5E32
Light Source Electrical Equipment Ltd Light Source House, 24 Scrubs Lane, London, NW10 6RD	5B36
Lightgraphix Ltd Vauxhall Place, Lowfield Street, Dartford, Kent, DA1 1HU	5D18
Linolite Ltd Malmesbury, Wiltshire, SN16 9JX	5D10

Quantran Systems Ltd Rembrandt House, Whippendell Road, Watford, Hertfordshire, WD1 7PG	5B24
Reccsam Components Ltd Ash Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UN	5M2
Sangamo Controls Industrial Estate, Port Glasgow, PA14 5XG	5F22
Tenby Electrical Accessories Ltd 17-21 Warstone Lane, Hockley, Birmingham, B18 6JG	5C12
Transtar Ltd Victoria Industrial Estate, Victoria Road West, Hebburn, Tyne & Wear, NE31 1UB	5E46

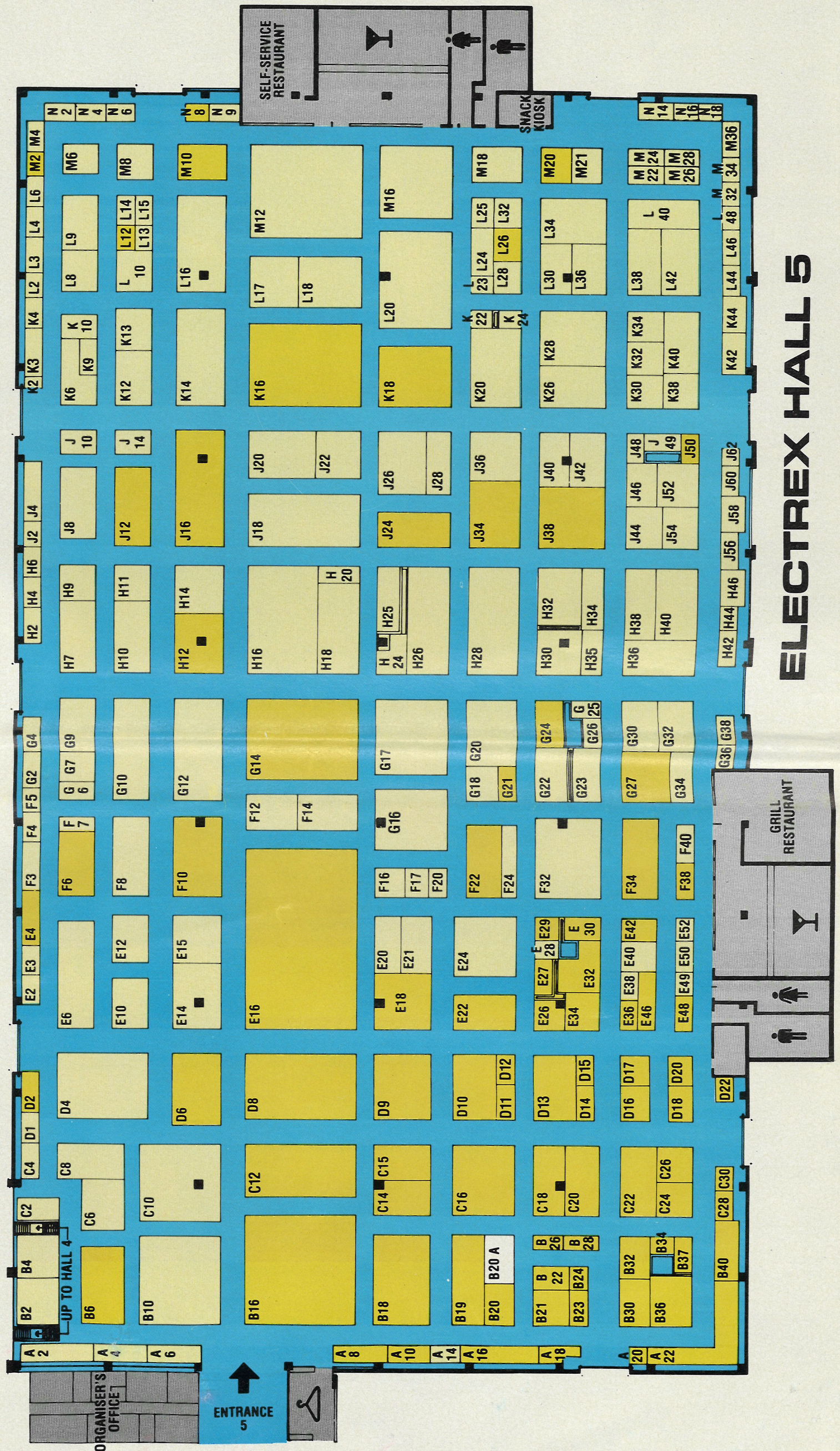
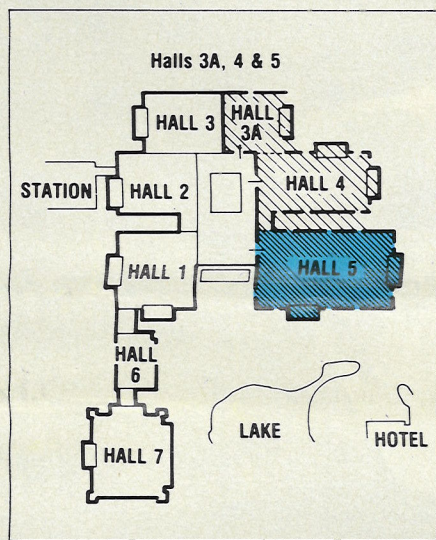
Suppliers

Ano-Coil Ltd Bilton Road, Bletchley, Milton Keynes, Bucks	5D14
Arrow Plastics Ltd Hampton Road, Kingston-upon-Thames, Surrey, KT1 3HQ	5A8

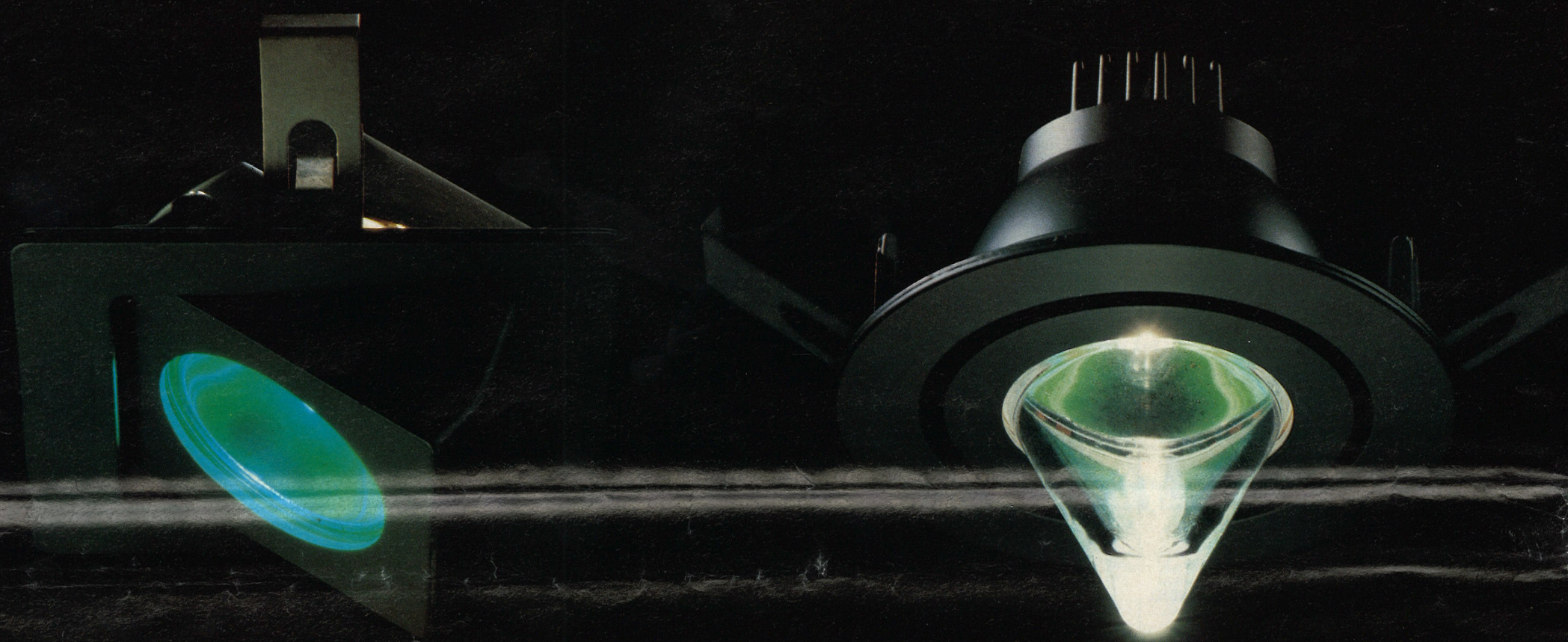
Lutron EA Ltd 9 Suttons Industrial Park, London Road, Earley, Reading, Berkshire, RG6 1AZ	5D17
Maylectro Ltd Gillmans Industrial Estate, Billingham, West Sussex	5A10
Menvier (Electronic Engineers) Ltd Southam Road, Banbury, Oxfordshire, OX16 7RX	5A22
Midland Machinery Services Ltd 12 Low Farm Place, Moulton Park, Northampton	5F38
P & B Engineering Co Ltd c/o P & B Engineering (NW) Ltd, Belle Vue Works, Boundary Street, Manchester, M12 5NG	5F10
Petitjean & Company Dukes Way, Teesside Industrial Estate, Thornaby, Cleveland, TS17 9LT	5B34
Pirelli General plc PO Box 4, Western Esplanade, Southampton, Hampshire, SO9 7AE	5J16
Powerlite Electrical Products Ltd 122 North Street, Leeds, LS7 1AF	5B21
Ring Electronics Cross Green Industrial Estate, 221 Pontefract Lane, Leeds, LS9 0RZ	5E30
Secundalux Emergency Lighting Ltd c/o 11 Westerdale, Springfield, Chelmsford, Essex, CM1 5UN	5D15
Strand Lighting Grant Way (off Syon Lane), Isleworth, Middlesex	5D16
Think-Foremost Ltd Nippors Way, Winscombe, Avon, BS25 1HF	5D12
Thorn EMI Lamps & Components Ltd Miles Road, Mitcham, Surrey, CR4 3YX	5C15
Thorn Lighting Ltd 284 Southbury Road, Enfield, Middlesex, EN1 1TJ	5C16
F W Thorpe plc Facet Road, Kings Norton, Birmingham, B38 9PU	5B19
Thousand & One Lamps Ltd 4 Barmeston Road, London SE6 3BN	5B20
Tripower Ltd Marsh Lane, Ware, Hertfordshire, SG12 9QQ	5J24
Uni-Lite UK Units 12-13 Radway Road, Shirley, Solihull, W Midlands, B90 4NT	5B28
USC (Consumer Products) Ltd 8 Heddon Street, London, W1R 8BP	5L26
Victor Products plc Lighting Division, Norham Road, West Chirton Industrial Estate, North Shields NE29 7XW	5E46
Wandsworth Electrical Ltd Albert Drive, Sheerwater, Woking, Surrey, GU21 5SE	5J34
Wotan Lamps Ltd Wotan House, 1 Gresham Way, Durnsford Road, London SW19 8HU	5E18

Balcan Engineering Ltd Woodhall Spa, Lincolnshire LN10 6RW	5A20
Edmundson Electrical Ltd Pace House, 25 Summer Lane, Birmingham, B19 3TN	5G24
Frank Whitelegg Manufacturing Ltd Curtis Road, Dorking, Surrey, RH4 1EJ	5M10
Great Eastern Trading Unit 17/18 Bow Industrial Park, Carpenters Road, London E15	5F6
Tenby Electrical Accessories Ltd 17-21 Warstone Lane, Hockley, Birmingham, B18 6JG	5C12
Tridonic Ltd Unit D1, Grafton Way, West Ham Industrial Estate, Basingstoke, Hampshire, RG22 6HY	5C20
Vossloh Ltd 122 Tanners Drive, Blakelands, Milton Keynes, MK14 5BP	5D13
The Wholesale Fittings plc 313-333 Rainham Road South, Dagenham, Essex, RM10 8SX	5E4

If a lamps and lighting company also has control systems, it appears only in the lamps & lighting column. If a controls company is also a supplier, it only appears in the controls column.



Gucci accessories are shown in London thanks to these accessories.



After creating the accessories for which he is famous, Gucci had this "Laser" range fitted to light them. This creation, too, has accessories for adapting the light to any shape which can be displayed in a shop window.

So, if there is a tie, it changes into a tie in order not to light other things which are not relevant, or into a painting, if, for example, you have more artistic aims. If you need an elliptical beam of light, or light which is particularly concentrated, or if you wish to turn it

through 90°, or if you prefer coloured light, "Laser" will meet the demands of every object needing to be lit.

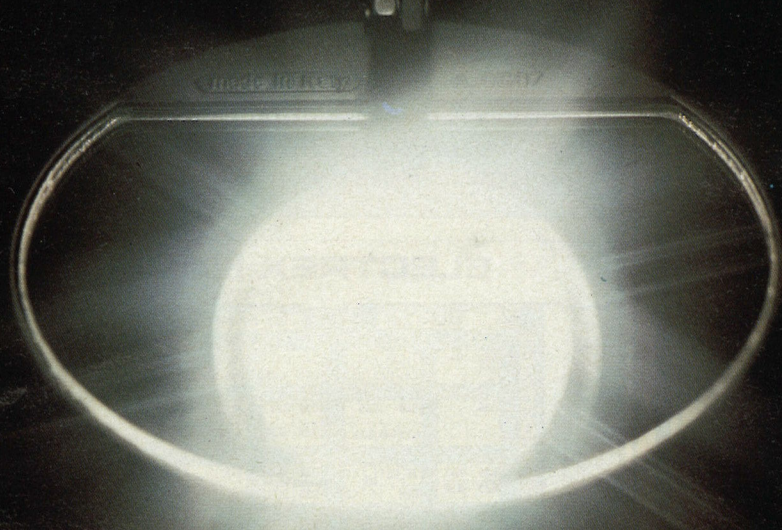
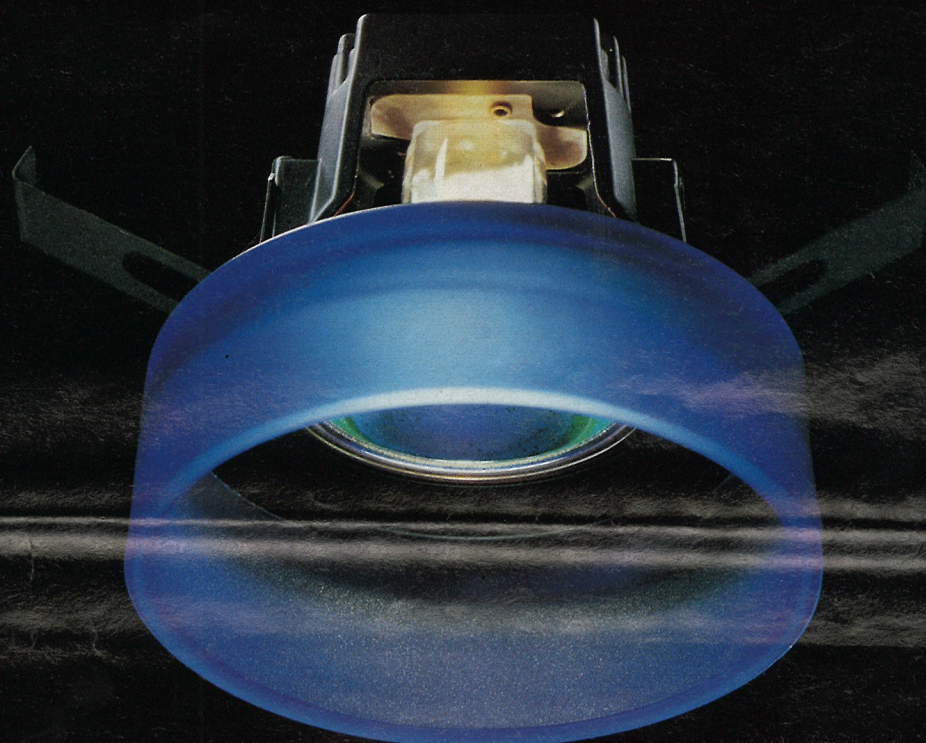
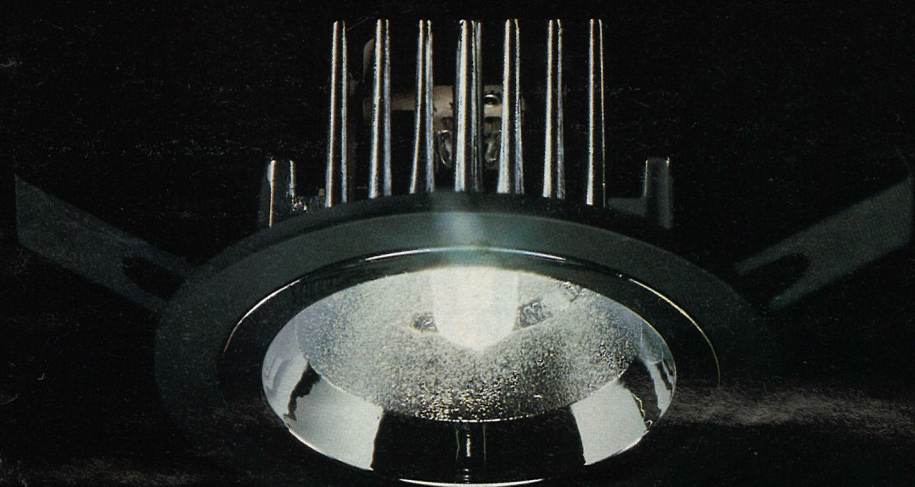
You can always rely on the IMQ mark, and on the lampholder which give an excellent connection between supply and lamp, preventing accidents due to overheating. What is more, the Photos computer programme is available to architects and designers. It brilliantly solves the lighting problems which, with the old systems, you would have resolved only in an ap-

proximate way. It is a programme which quantifies the features of the lighting at every point in your design.

If you have a Picasso and you want to light all its features, write to:

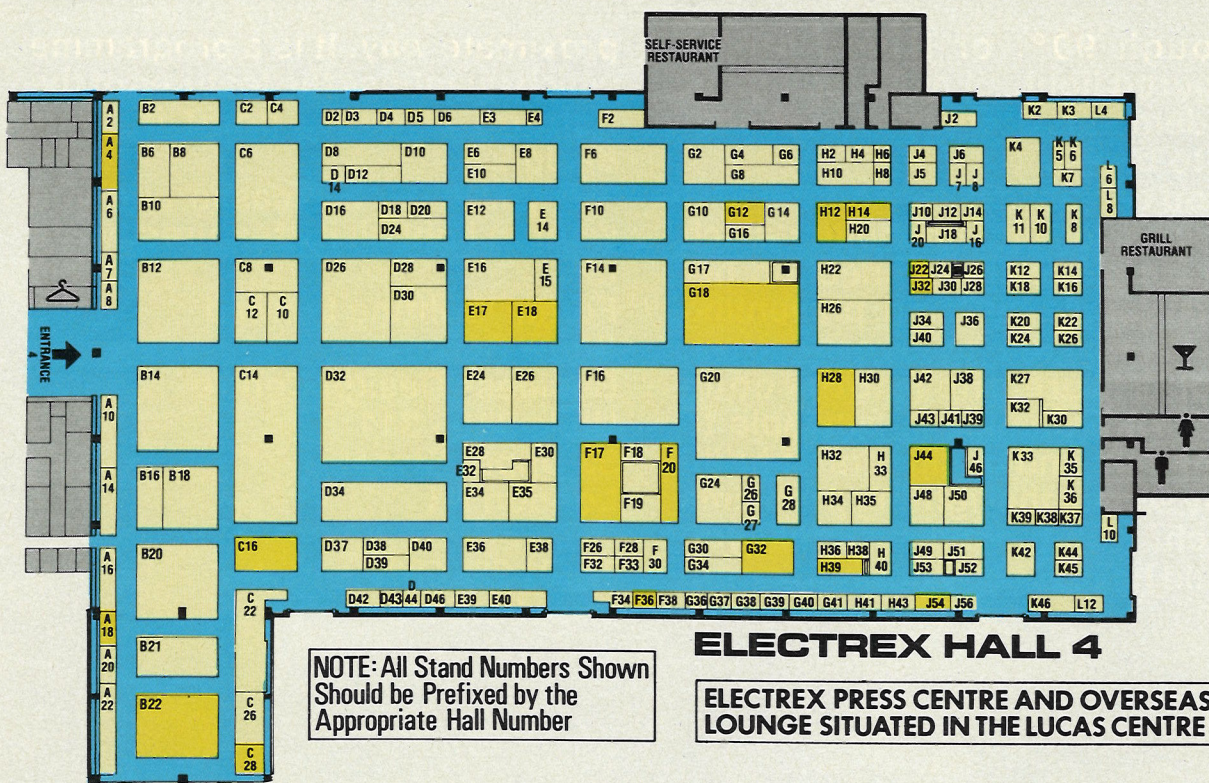
Forma Lighting Limited
Show Room
Business Design Centre
Units 310 - 311
52 Upper Street
London N1

Tel: 01-288 6025
Telex: 8812473

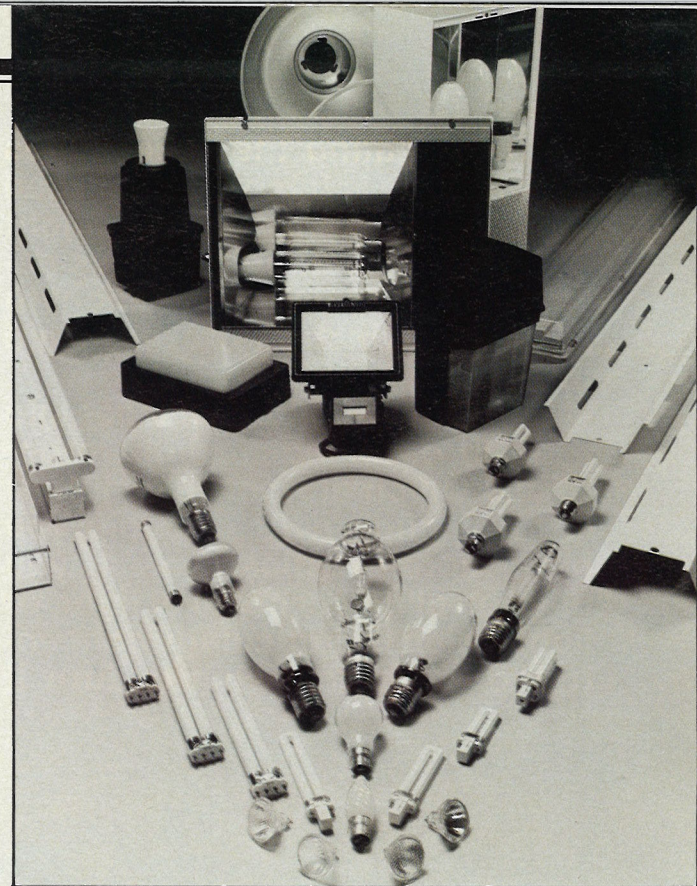


iGuzzini
Architectural Lighting

Reader Service No. 7

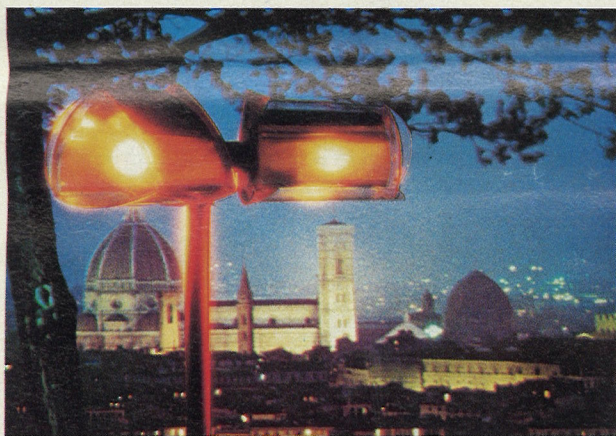


Lighting-related stands are highlighted in bright yellow; the listings for halls 3 and 4 are opposite. See pages 4/5 for hall 5

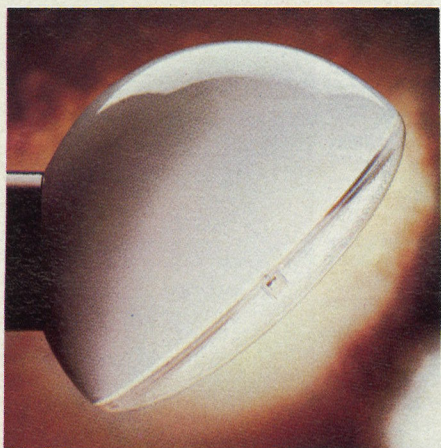


Sylvania, stand 5D9, will be showing lamps ranging from thumping industrial HID sources to the tiny 12V tungsten-halogen variety.

Quality lighting with Fael style



LUCIFERE

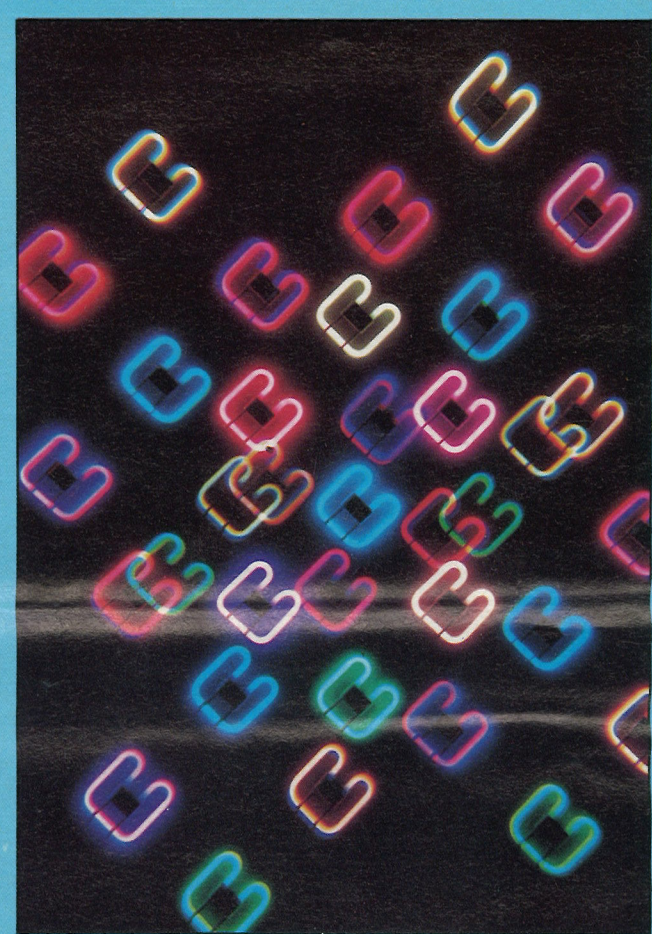


LUNA

Fael LUCE

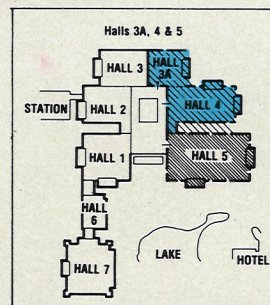
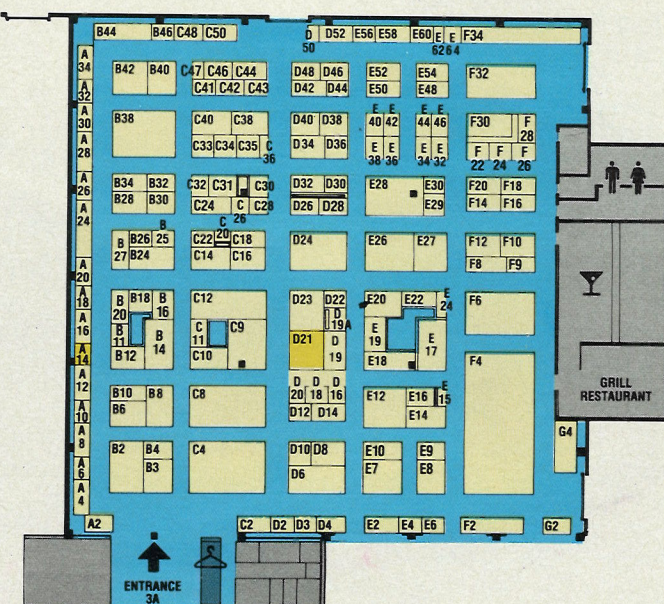
Fael Luce UK Ltd.
Unit 2, Eastern Road, Aldershot
Hants. GU12 4TD
Telephone: (0252) 336555
Telex: 859742 Fax: 0252 331902

VISIT US ON
STAND 5B 23



Both Thorn Lighting and Thorn EMI Lamps & Components will be showing the coloured versions of 2D. Stands 5C15, 5C16.

ELECTREX HALL 3A



HALLS 3 & 4 Lamps & Lighting

The Moflash Co Ltd Forest Lane, Walsall, West Midlands, WS2 7AX	3A14
H & L Appleby Ltd Coltham Road, Short Heath, Willenhall, West Midlands, WV12 5QE	4A18
Elkay Electrical Mfg Co Ltd Mochdre Industrial Estate, Newtown, Powys, SY16 4LF	4E17/18
FKI Electrical Components Ltd Progress Way, Enfield, Middlesex, EN1 1UZ	4F36
Hawker Siddeley Group plc 32 Dukes Street, St James's, London SW1Y 6DP	4G32 5B16
Heyco Manufacturing Company Ltd Uddens Trading Estate, Wimborne, Dorset, BH21 7NL	4H14
Siemens Ltd Siemens House, Eaton Bank Trading Estate, Varey Road, Congleton, Cheshire, CW12 1PH	4G18
Silver Fox Ltd Swallow Court, Swallowfields, Welwyn Garden City, Hertfordshire, AL7 1SA	4J22
Simplex Electrical Ltd PO Box 18, Brookside, Wednesbury, West Midlands, WS10 0QF	4B22
Tranilamp Ltd Eastern Way, Bury St Edmunds, Suffolk IP32 7AB	4A4
Transtech Ltd 173 Scudamore Road, Leicester, Leicestershire, LE3 1UQ	4H39

Controls

Broyce Control Ltd Broyce Marvid Works, Pool Street, Wolverhampton, WV2 4HN	4H12
DG Controls Ltd Belvedere Road, Burton-on-Trent, Staffordshire, DE14 2QY	4C28
Horstmann Timers & Controls Ltd Newbridge Works, Bath, Avon BA1 3EF	4J32
Polaron Controls Ltd 21 Greenhill Crescent, Watford Business Park, Watford, Hertfordshire, WD1 8XG	4J54
Superswitch Electric Appliances Ltd Houldsworth Street, Reddish, Stockport, Cheshire, SK5 6BZ	4G12
Wadsworth Electronics Ltd c/o JDK Publicity, General Wolfe House, 83 High Street, Westerham, Kent TN16 1RE	4C16

Suppliers

Barton Engineering Ltd Birchills, Walsall, West Midlands, WS2 8QE	4H28
Bayer UK Ltd Bayer House, Strawberry Hill, Newbury, Berkshire, RG13 1JA	4F17
H F Collison Ltd Collison House, 58-60 Coventry Road, Coleshill, Birmingham, B46 3EE	4F20
Newey & Eyre Ltd Donne House, Calthorpe Road, Edgbaston, Birmingham, B15 1QX	4J44
Rists Ltd Lower Milehouse Lane, Newcastle, Staffordshire, ST5 9BT	3D21

ALL HALLS Organisations

BEAMA Leicester House, 8 Leicester Street, London WC2H 7BH	4A8
Electrical Contractors' Association 34 Palace Court, London W2 4HY	4D37
Energy Efficiency Office (Department of Energy), Thames House South, Millbank, London SW1P 4QJ	4G4
Lighting Equipment News Maclean Hunter House, Chalk Lane, Barnet, Hertfordshire, EN4 0BU	5E34
Mutual Independent Distributors Association (MIDA) 21 Pershore Road South, Kings Norton, Birmingham, B30 3EE	5K4
National Inspection Council for Electrical Installation Contracting Vintage House, 36-37 Albert Embankment, London SE1 7UJ	5E2

Installation meeting to run along- side show

Running parallel with the Electrex '88 show will be a meeting of the CENELEC TC64 committee, which deals with electrical installation regulations

CENELEC is the European Committee for Electrotechnical Standardisation.

The meeting will be hosted by the Midland Electricity Board, with the collaboration of the Institution of Electrical Engineers, the Electrical Contractors' Association, Beama (Federation of British Electrotechnical and Allied Manufacturers' Associations) and the Association of Supervisory and Executive Engineers. Some 40 delegates from Europe will attend.

Who's where

Generally, lighting companies are in hall 5. Use the listings pages of this supplement to check out each hall.

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Our comprehensive new literature pack tells you everything you need to know about Britain's widest range of luminaires, including our latest Designer series.

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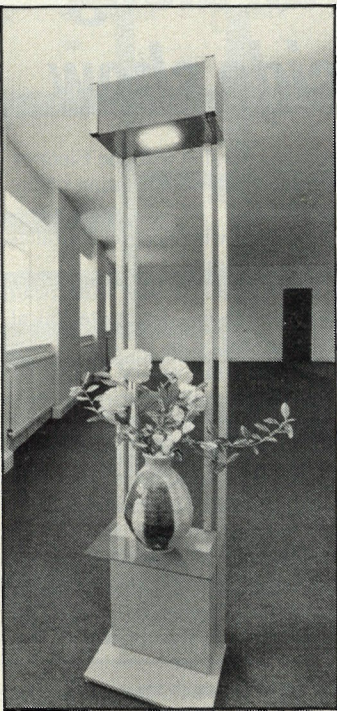
European lighting looms large at Lampways

Lampways, the Bradford-based lamps and lighting distributor, is handling four major European lighting companies, all on show at Electrex.

The companies are Prisma Illuminazione, EgoLuce, Surya Illuminazione and Elteva Denmark. Lampways also has its own catalogue, and is the sole UK distributor of the Toshiba Neoball compact fluorescent lamp.

Prisma has a range of commercial and residential luminaires, and its own range of Focus metal halide floodlights for retail use. EgoLuce concentrates on low-voltage fittings, and Lampways claims to round out the offering with its transformers and low-voltage cable.

Surya Illuminazione majors on outdoor period lighting, while Elteva Denmark's display will feature the cylinder fluorescent system, with integral sound and low-voltage modules. 5E32



Menvier ready to use the BS revision

Menvier, specialist in emergency lighting equipment, reports substantially increased demand for its luminaire conversion kits, following the recent changes to BS5266.

The new British Standard, says Menvier, favours the use of high output emergency luminaires, and

the company's Convertalite kits, which allow a standard fluorescent luminaire to play an emergency role, have been filling this gap.

Menvier also makes fire system control panels, detectors and sounders, and a range of other controls, which will be on display.

Taking it on the chin

A light and shaver unit will be one of the new accessories from Crabtree Electrical Industries Ltd.

Designed with the emphasis on simple operation and user safety, says Crabtree, the Capital light and shaver unit has a diffuser which can be removed complete with the lamp fitting. This feature enables lamp changes to be carried out independently of the main unit, so preventing accidental access to live parts.

Wiring accessories on display include Crabtree's range of Capital lighting switches, ceiling switches, control switches, socket outlets, lampholders and ceiling roses. 5D8.

Who's where

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Making an attachment to pendant standards

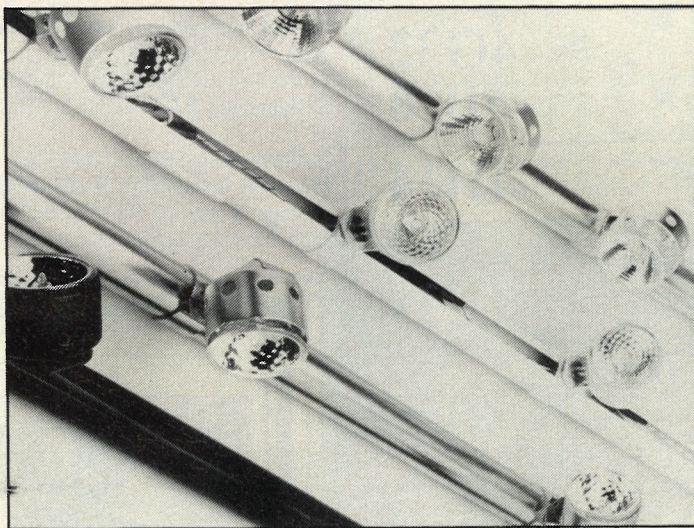
B G Electrical Accessories will be showing a variety of electrical accessories for lighting, including fluorescent starters.

The company also has a number of decorative and commercial light fittings, and is a member of the committee formed to establish a standard for the connection of

ceiling rose pendants. The aim is to produce a 3-pin plug and socket arrangement which should improve the safety and ease of installation and maintenance.

Decorative and commercial light fittings include picture lights in brass, both tungsten and fluorescent versions. 5F34

Flush products set to arrive from Hitech



Hitech Lighting will be exhibiting new PL fluorescent recessed downlights for commercial, office and retail environments.

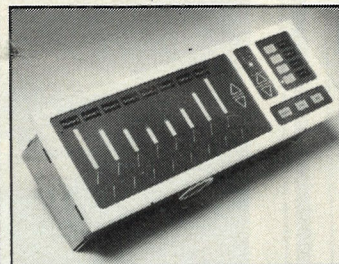
The company will also be displaying a new range of low-voltage

products, including dedicated transformers, spotlights, and downlights. Hitech's present range of low-voltage fixtures track, transformers and accessories will also be at the show. 5B22

Modular dimmers to make it memorable

Modular lighting dimmers with electronic memories will be on show from Lytemode.

The modules have been designed to join up with each other



with other elements in the system, aiming to provide reliable performance even in complex configuration.

Control panels on the units may be labelled to identify and explain function, and led displays show both scene status and channel intensity. Lytemode features include multiple scene, multiple channel control with adjustable fade-rate between scenes; manual override, with learn lock to prevent tampering with preset scenes; non-dim channel programming; ten-year memory retention without batteries; washable control surfaces, master channel intensity control and full panel lock programming to prevent unwanted changes in the lighting levels.

In addition, a solid-state timing device to activate scenes for one or several systems is available. 5B26



Uni-Lite will be showing its batteries and other lighting accessories, stand 5B28.

Americans set out new world of lamps

GE Lamps USA will be demonstrating new lamps and lighting at the show, including its range of 35mm dichroic display lamps.

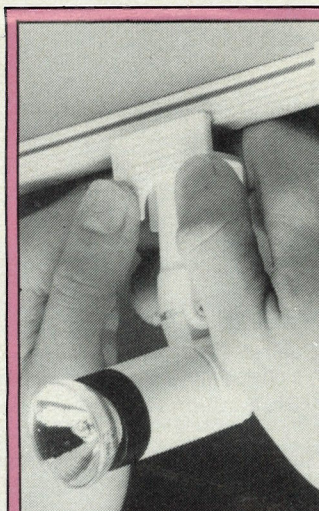
Other new products will include 70W reflector high-pressure sodium lamps, 100W high-pressure sodium, 110W retrofit high-pressure sodium and 32W metal halide lamps.

Beside these new items will be the Lucalox high-pressure sodium lamp, invented by GE in the early 1960s. 5E26

Sending coils to Coventry

Electronic Products (Coventry) will be showing samples of wound components, particularly low-voltage fluorescent lighting invertors/convertors.

Besides the coils, there will be low voltage spotlight power units for shops and showrooms' display lighting. 3C20



Illuma low-voltage track spotlights, stand 5C14.

Looking for a celebration

George Turnock will be featuring its Celebration range of outdoor lighting sets, harnesses, tableaux and other exterior lighting.

Celebration lighting sets are complete, ready to use (excepting plug) ten and 20-light sets using 15W 240V pygmy lamps. The sets have instructions, suspension hooks and a 5m lead. Celebration lighting harnesses, with sets of either ten or 20 holders with suspension hooks, can also be found at Turnock.

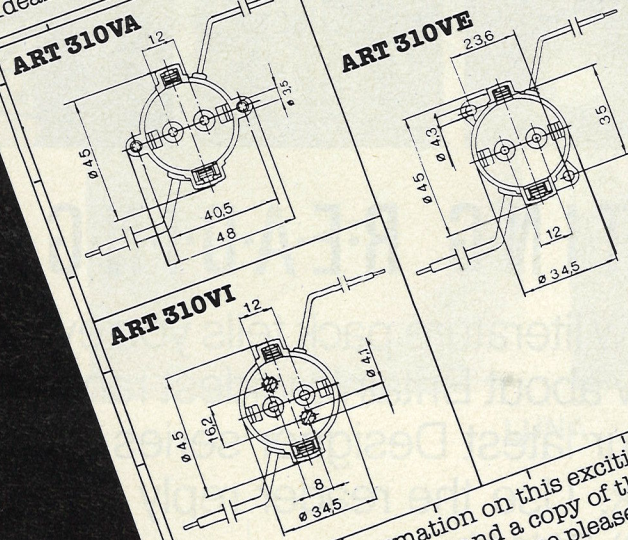
Celebration Silhouettes, a range of lightweight illuminated shapes to plug into festoon cable, will be launched at the show. There are a number of standard shapes based on seasons and other themes. 5J50



Brick lamp from Ring, stand 5E30.

efc PRODUCT NEWS '88

New from E.F.A.
The A.A.G. Stucchi range of lampholders for Philips white son display lamp (SDW/T 35-50 Watt)
Ideal for display/ambient lighting/downlighting



For further information on this exciting new range of lampholders and a copy of the comprehensive EFA catalogue please contact - Steve Noble.

EFA is a member of the Arlen group of companies
EFA, Arlen House,
808/809 Oxford Avenue
Slough, Berkshire SL1 4LN

Telephone: (0753) 37921 Telex: 847194 Fax: (0753) 691468

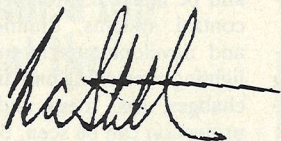


Electrex 29 February - 4 March

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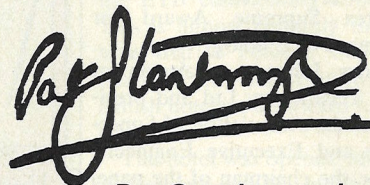
"8 THINGS YOU MIGHT HEAR ABOUT STC DISTRIBUTORS"

"They've got the products, they've got the knowledge, they've got the service... and they're nice people to deal with!"



Mike Stothers
Chairman and Managing Director, William Steward

"STC's unique service is the one I judge others by"



Pat Stanborough
Managing Director and Chief Executive, T. Clarke

"STC are our first choice and we very rarely need a second"



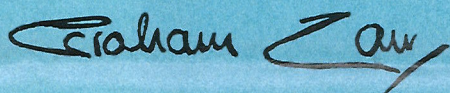
Mike Wilson
Chairman and Managing Director, Lowestoft Electrical Group

"For quality lighting you need quality service - I am pleased to endorse this campaign"



Mike Goodwin
Group Managing Director, Philips Lighting

"STC's investment in computer technology shows they are ahead of the game and intend to stay there"



Graham Carr
Director-Marketing, MK

"We always know our products are in good hands
with STC Distributors"



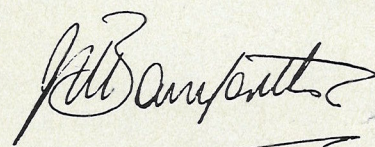
Ron Bosanko
Marketing Director, Wylex

"They are the most professional team I've ever worked with at any tradeshow"



Maria Whittaker
International Model

"The customer is always right!"



Jim Bamforth
Managing Director, STC Distributors

TEAM UP



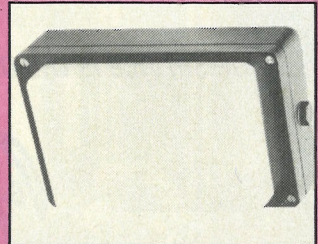
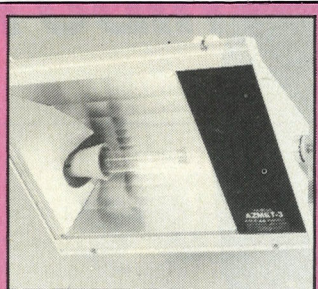
WITH

WATWORTH Best and May
STC DISTRIBUTORS

Parkinson set to present Electrex Supreme Award

Cecil Parkinson, Secretary of State for Energy, is to present the new Electrex Supreme Award for Advanced Technology.

Denys Johnson, chairman of ERA Technology Ltd and president of the Association of Supervisory and Executive Engineers, will be the chairman of the panel judging entries for the award. The presentation will be at Beama's annual dinner, which is being held on 2 March in the Metropole Hotel (which is in the NEC complex).



Thorlux will be showing lighting from its industrial and commercial ranges. Top: Azmet 3 floodlight; above: Vandalux vandal-resistant bulkhead. Stand 5B19.

Strand stages architectural controls lighting show

Architectural lighting and dimming control will be shown by Strand Lighting, besides the more well-known stage lighting products.

The Environ series of architectural lighting controls, including the universal 5A dimmer and programmable systems.

Strand will also be showing its new Cantata stage lighting range of 1.2kW profile spots, Fresnel and pc lanterns. Memory lighting control systems, dimmer packs and developments in automated lighting controlling pan, tilt, colour chabges, iris, focus and pattern projection can be seen. 5D16

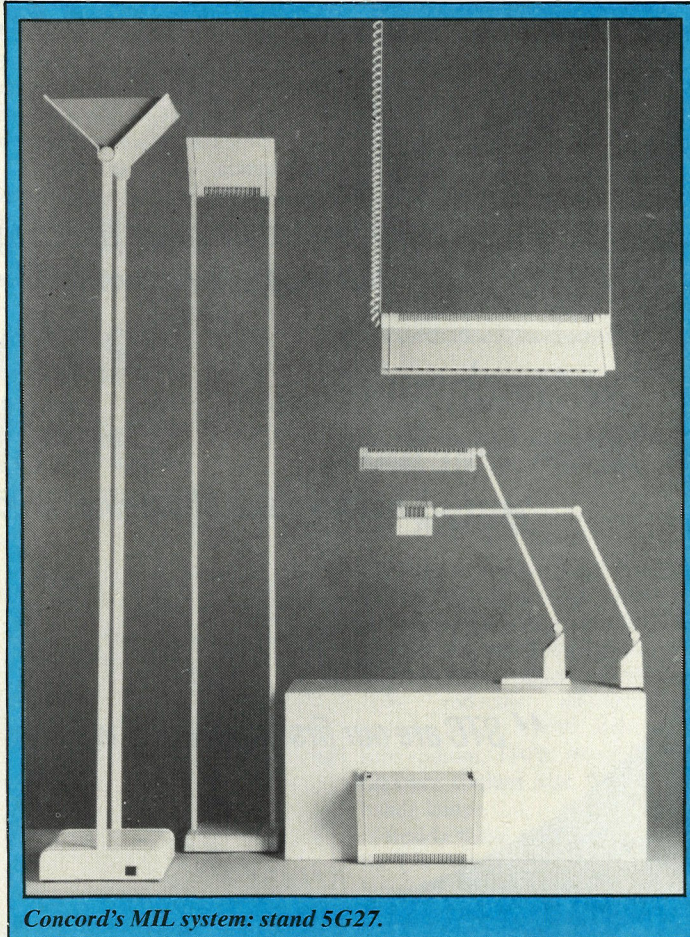
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Concord's MIL system: stand 5G27.

Showing sensortivity

Powerlite Electrical Products will be showing its new Powerscan 2000 passive infra-red sensor, beside its range of energy-saving and other lighting.

The Powerscan 2000 is triggered by movement, and can switch 2kW of lighting, for five minutes after the last detected movement.

Powerlite will also be showing

its own range of high-pressure sodium floodlights (70, 150, 250 and 400W versions), with the junior of the range available with a photocell with automatic dusk-to-dawn switching.

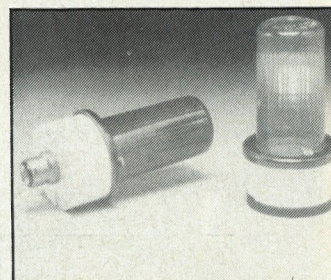
The company also makes the Decorline range of energy-conscious office and amenity lighting. On the stand will be tungsten-halogen luminaires. 5B21

Corporate approach catches on at Crompton

Crompton Lighting, part of the Hawker Siddeley group, will be sharing a stand with Crompton Cables and Brush Fusegear.

Hawker Siddeley will be represented at the show by three stands: two corporate stands (4G32 and 5B16), and the Crompton stand 5B18. The Crompton stand will be under the Crompton Parkinson banner. 5B18

Flashing hazard warnings



Moflash will be flashing a warning to Electrex visitors, with its hazard warning beacons.

The beacons are rotating, and are intended for vehicle mounting. They use tungsten-halogen 12V or 24V lamps. An alternative system uses xenon flashing devices. The flash tubes in these have a life of more than 5 million flashes, according to Moflash. 3A14

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Put that fire out — put that light on

Gent will be presenting its range of conventional and other fire alarm equipment, with its emergency lighting products alongside.

Gent is best-known for fire-related systems, including Halon 1301 and microcomputer-controlled detection and alarm devices. 5J38.

Got a crush on you...

Specialised lamp crushers from Balcan Engineering will be shown at Electrex.

Said to meet the requirements of the Health & Safety Executive, the crushers are designed to prevent exposure to toxic chemicals or flying glass while lamps are being crushed. The crushers are manually operated, and are said to totally encase the lamps during the process. 5A20.



Same scene. Different settings.

Now, all your customers can have a sophisticated lighting control system. Because System 12 from Electrosonic brings the benefits of scene-setting into the smaller retail and leisure installation — such as shops, restaurants, pubs, and small exhibition areas.

It's a brand new system incorporating a 128-scene memory control, on 12 dimmer channels. All in a compact, self-contained, wall-mounted package which offers real cost-saving benefits in material and installation time.

For the designer System 12 offers the opportunity to create by a hand held programmer up to 128 different scenes or lighting sequences. System 12 can control two or more areas totally independently of each other.

For the end user, operation is as simple as pressing a **single** button to select the scene to suit the needs of the moment. Or, if the pattern of lighting requirements is predictable, all changes can be initiated by a 7-day, 256-event programmable time switch.



Using System 12 is simple. But the range of lighting effects that can be programmed into the system rival much more costly large-scale installations. And System 12 is readily available through specialised distributors so there's no big delay to completion. The cost is surprisingly modest too!



Check it out. It means that the benefits of scene-setting are now available for almost any of your smaller applications. It's a whole new scene! For literature and distributors contact:

Electrosonic Limited
815 Woolwich Rd, London SE7 8LT.
Telephone: 01-855 1101.
Telex: 896323 ESMX G.

ELECTROSONIC

Refurbishing the Ramada

Brighton has always been a popular resort, and in 1983 the English Tourist Board identified the need for a top-quality hotel to meet growing needs. We look at the lighting control system.

In September this year the first international de-luxe hotel in an English coastal resort was opened. The five star Ramada Renaissance is situated on a prime sea-front site in Kings Road, adjacent to the famous Brighton Lanes, and forms a major part of a £25 million project being developed by Speyhawk plc in conjunction with Brighton Borough Council.

The hotel, which comprises 204 bedrooms surrounding a five-floor atrium, has two restaurants — "The Promenade" overlooking the seafront, and "La Noblesse", a speciality restaurant offering nouvelle cuisine.

Situated on the ground floor is Barts Bar; and the conference facilities, incorporating syndicate rooms and a ballroom, will cater for a maximum capacity of 300.

Electrical designers YRM and electrical contractors Matthew Hall used Electrosonic Sceneset controlled lighting in all of these public areas, including the soaring atrium. The only exception is the La Noblesse Restaurant, which is controlled by Electrosonic Auto-dims.

It is interesting to note that not all the lighting is operated by dimmers. Contactor controlled high

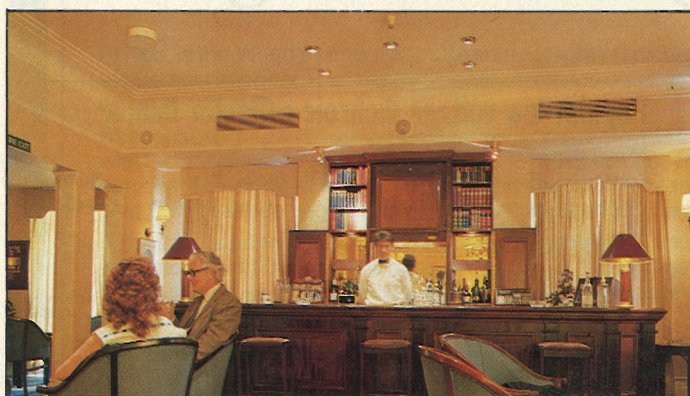
intensity discharge lighting is also controlled by the same programmable Sceneset System. The installation uses a mixture of light sources, including a considerable number of transformer fed MR16 reflector lamps, in addition to line-voltage tungsten.

A 1983 study by the English Tourist Board stressed the need for a top quality hotel to be established in Brighton in order for the town to develop its role as an international conference centre. The five-star Ramada Renaissance hotels, positioned at the top of the company's three-tiered product range as de-luxe city centre



Restaurant area, Queen's Hotel

properties, are ideally equipped to fill this need.



The bar, also at the Queen's Hotel

Funding for the hotel, the first international de-luxe hotel in an English coastal resort, is being provided by Postel on behalf of the British Telecom Fund, with the ETB contributing £300,000. This is almost certainly the first time that a Pension Fund has financed the construction of a British hotel on a forward funding basis.

The hotel was opened officially in September 1987 by the Lord Lieutenant of East Sussex, The Marquess of Abergavenny.

Information for this piece was supplied in the first place by Electrosonic Ltd, 01-855 1101.

ARCHITECTURAL SIGNAGE

Pointing the right way

It seems to be very rare that illuminated signs are truly incorporated into the design of a building; more often they are tacked on to the fabric as an after thought when it is realised that the levels of ambient light are insufficient to enable signs to be clearly visible.

We accept and expect the signs in airports to be lit but the only other strong hold for illuminated graphics is in the retail sector. Could it be that opportunities to bring architecture to life are being missed?

"No budget for luxuries" I hear you cry, and certainly, as add on extras illuminated signs come expensive. Include them from conception and they can be a quarter of the cost.

The recently opened Royal Hospital in Oman has over 40 illuminated "Bulkheads" each 3m wide and 0.3m high, which were supplied complete with graphics and lighting equipment, at a cost of less than £400 each. The effect of crisp graphics on a bright background breathes vitality into the functionally sterile atmosphere of the building.

The design requirements for this type of installation are simple, for each sign location, a void of at least 150mm must be created in the wall or in the drop of a ceiling bulkhead, this will enable fluorescent tube lighting to be used.

If the depth of void is restricted by the fabric of the building it can be reduced to 100mm by utilising Neon tubes and built in sealed unit transformers.

The sign contractor can then supply complete signs with the lighting gear on a chassis and with the graphics held in a frame which masks the edge of the void. One of the greatest advantages of this

type of signage is that it can be wired into the "maintained" power supply of public buildings giving both light and guidance in the event of a power failure. Mandatory illuminated exit signs can therefore be included in the overall graphic design.

One note of caution, check with your sign supplier before you specify a background colour, some do not back light well, grey for example. This also applies if you anticipate using colour coding for departments, some colours will show as black silhouette when lit from behind.

Key to success

Glare or reflection can make signs unreadable from certain angles, though this can be minimised through the use of matt finishes where ever possible.

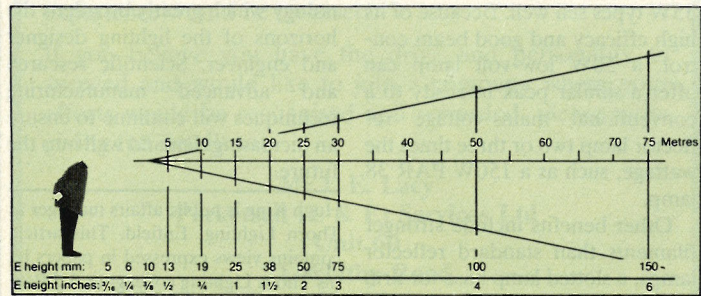
The best way to simplify all your sign problems is to contact a manufacturer at an early stage in the project. This will avoid later compromises and cost increases.

One of the most repeated compromises is the size of type, when the text spills over the end of the sign, so ask your sign manufacturer to produce sample layouts.

The length of the text will very much depend on the style of type used, but using Helvetica as an example a sign 1200mm long will display 14 characters @ 80mm high or 28 characters @ 60mm high. A sign 1800mm long will display 24 characters @ 80mm high or 38 characters @ 60mm high.

The key to successful illuminated architectural signage? Discuss it at the first contract meeting.

John Browse is with Browse/Bion Ltd, sign consultants and manufacturers; 0634 710063.



This diagram shows recommended type sizes against viewing distances

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20th - 27th April, 1988



For further information please contact: Arnold Rustemeyer, Braeside, Sanderstead Road, Sanderstead, South Croydon, Surrey CR2 0AJ, Tel.: 01-651-2191, 01-651-2100, Telex: 8951514

Tungsten-halogen takes the lead

Incandescent lamps have seen a renaissance with the advent of tungsten-halogen technology. Hugh King reviews its impact, and looks at the lighting performance you should expect.

Until 1961, lighting commentators had tended to talk about the tungsten filament lamp as an inefficient and outmoded light source. This view came under rapid attack with the emergence of the tungsten-halogen lamp.

The first type produced was a tubular 240V 1500W lamp, 254mm long, having recessed, dish-shaped contacts. This lamp was first used to illuminate the Royal Mile in Edinburgh and Enfield football stadium and heralded a major new technological development in the life of the incandescent lamp. It has had a far-reaching impact in many fields of illumination such as airfield lighting, automobile, space heating, traffic signal, film projection, studio and display lighting and for many other purpose where the optical control of a concentrated light source in a small bulb could be utilized.

Since the 1960s, lamp technologists have wanted to reduce the wattage of mains-voltage linear lamps in order to widen applications from exterior floodlighting to commercial and domestic interiors. The lighting industry is now within striking distance of this objective; the 100W linear version is only 80mm in length.

The low-wattage lamps emerged in 1981 when a new

Popular low-voltage dichroic reflector lamps

35mm diameter					
Lamp watts	Beam	Lamp number	Life (hrs)	Peak candelas	Beam angle
12	Narrow	M64	2000	6400	7°
20	Narrow	M52	3000	5500	10°
20	Medium	M51	3000	1760	17°
20	Wide	M62	3000	600	30°
35	Narrow	M65	3000	9000	8°
35	Medium	M66	3000	3000	20°
50mm diameter					
20	Narrow	M68	3000	5000	11°
20	Medium	M94	3000	1000	24°
35	Narrow	M71	3000	9000	8°
35	Medium	M70	3000	3600	18°
35	Wide	M81	3000	970	38°
50	Narrow	M49	3000	12000	10°
50	Medium	M50	3000	3700	21°
50	Wide	M58	3000	1550	38°
50	Flood	M80	3000	700	60°

method was found of supporting the filament by means of a quartz spine. Not only did this now support the thin filament wire required for smaller wattages, but also produced a more even temperature along the filament leading to an even redeposition of tungsten and thus better performance. It also permits universal operating angles, plus a stronger filament and a longer life (4000 hours). These lamps in 100, 150, 200, 250, and 300W ratings produce an ideal lumen package for commercial interiors, shop lighting and even domestic applications. The lamps have conven-

tional R7s caps and are available for 240/250, 220/230 or 120 volt operation.

Single-ended jacketed lamps are challenging the traditional concept of indoor floodlights having to use a double-ended lamp, and thus two lampholders and a cumbersome protective front glass. With an axial filament and a clear jacket these lamps can also be used to tremendous effect with chandeliers, both traditional and modern. The lamps are internally fused, have a colour temperature of 2850K and are offered in 100W, 150W and (shortly) 250W ratings. The axial filament mini-

mises the light lost in the lamp cap, and the 4000-hour life greatly assists maintenance requirements.

The more compact a filament can be made, then the greater the possible light control. A mains-voltage filament is too long to be coiled closely enough to make it very compact. When the supply voltage is high (240V), the filament resistance needs to be high for a given power dissipation, so it is long and thin. At low voltage, the lower filament resistance needed means that it can be thicker and shorter, and therefore more robust.

The most familiar and convenient low voltage is 12V, and a wide range of lamp wattages (10 to 250W) is available.

In addition to such popular types as the 50W M32, used for display and traffic signal applications, comes the introduction of the M91 (12W) and M95 (35W) lamps. The M91 will produce dramatic effects at a very low energy cost, in decorative chandeliers or in bare lamp linear or cluster arrays for hotel or public areas. The M95 will serve equally well in reflector or bare lamp luminaires and is an energy saving alternative to the M32.

Integral reflectors

Other M lamps in 20, 35, 50 and 75W ratings have axial filaments. These light sources offer fresh opportunities in the design of compact table lamps, uplights and spotlights. As all four wattages have the axial filament at the same light centre, one luminaire design may cover a range of illuminances for a variety of domestic and commercial requirements.

However, for superior light beam control the prefocused reflector remains the best possible choice, and it is hardly surprising that low-voltage tungsten-halogen reflector display lamps have shown such growth.

The basic design comprises a small tungsten halogen capsule, accurately positioned in a pressed glass dish, internally coated with a dichroic reflective film. This coat-

Essential features of a tungsten-halogen lamp

If the envelope of a tungsten lamp is made of quartz instead of glass, it can be made much smaller because quartz can operate safely at a higher temperature.

During lamp operation, tungsten evaporated from the filament will deposit on the quartz envelope, causing it to blacken. However, if a small quantity of iodine (a halogen) is introduced into the lamp, a curious effect is produced. Assuming the conditions have been arranged properly, with the temperature of the quartz envelope above 250°C, the iodine will combine with the tungsten on the inner face of the quartz to form tungsten-iodine, which is a vapour.

When the tungsten-iodine comes close to the much hotter filament it decomposes; the tungsten is deposited on the filament and the iodine is released, so that it can perform its cleaning cycle over and over again.

Unfortunately, the tungsten is not necessarily redeposited on those parts of the filament from which it originally evaporated; if it were, the lamp life might be indefinite. Even so, quite substantial improvements in life can be achieved and/or higher filament operating temperatures — giving higher lumen outputs compared to the equivalent non-halogen lamp wattage.

There are four main advantages of tungsten-halogen lamps:

- It lasts longer — up to 4000 hours
- It gives more light — up to 50% more
- It uses a much smaller bulb — can be 200 times smaller

● It maintains its light output and the colour of the light remains constant throughout life.

Predictably there were difficulties in getting the tungsten-halogen lamp into production. The bulb wall operates at around 250°C because it is closer to the hot filament. As glass would have melted, the bulb was made from quartz. Since quartz is hard on the normal diamond disc cutters used in lamp production, engineers brought in lasers (probably the first time lasers were used in productive work in manufacturing industry). An incidental problem was that quartz will not adhere readily to metal, making it difficult to seal the lamp.

At first, iodine was the halogen used, which is why the first lamps that came on the market in 1961 were called 'quartz-iodine'; now bromine is used in photographic lamps. Its colour qualities are better, but iodine is still the normal halogen for mains-voltage lamps.

Perhaps the greatest contribution made by engineers to tungsten-halogen techniques lay in achieving close control of the halogen dosage. Too much halogen eats away the lead wires to the filament, while too little permits the blackening of the bulb that the halogen is added to prevent. To the existing difficulties of working the particularly stubborn metal tungsten were added the intransigence of quartz glass — a very hard substance with a higher melting point and more difficult to manipulate than glass.

ing consists of alternate layers of magnesium fluoride and zinc sulphide, vacuum deposited onto the glass in as many as 20 layers. The thickness of each layer is precisely controlled to establish an interference filter, which allows the relatively long wavelength (infra-red) radiation to pass through, while reflecting the shorter wavelength visible radiation. This produces a cool forward beam, ideal where excess heat damages goods.

Three beam widths are currently produced. In both the spot and medium flood versions the filament is placed at the first focus of the ellipse while with the wide flood the filament is positioned beyond the first focus of the reflector. A variety of ratings from

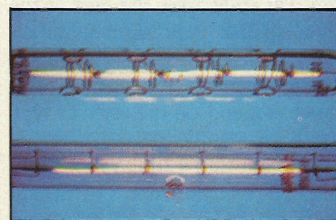
is thus hardly surprising that these lamps are now the first choice for shop display lighting enhancing store interiors, creating interesting highlights and improving sales.

Tungsten-halogen reflector lamps include the mains voltage PAR64 sealed beam lamps, producing very high lighting levels for the film and television market. These lamps overcome the need for heavy and expensive luminaires, and provide the necessary punch for entertainment lighting.

A 200mm parabolic reflector, with a high-quality aluminised coating, has a 1kW tungsten-halogen capsule positioned at the focal point. This front lens is sealed to the reflector to protect the capsule from high temperature degradation, and the whole assembly is filled with an inert, protective gas. The main advantage is that the light source is a sealed unit, with high optical efficiency. Other plus points include a 3200K colour temperature, 300 hours' life, robustness, and a choice of ratings and beam distributions.

Finally, it should be noted that tungsten halogen lamps are not a panacea for all lighting situations. Their effective application depends as much upon the flair and artistic inspiration of the display designer. What is suggested is that the modern tungsten halogen lamp in its many forms is an advance in incandescent lamp technology which greatly broadens the horizons of the lighting designer and engineer. Scientific research and advanced manufacturing techniques will continue to ensure an increasing demand well into the future.

Hugh King is public affairs manager at Thorn Lighting, Enfield. This article contains views expressed in papers by his Thorn Lighting colleagues A J Barrell, A Halberstadt, B Haywood and R A Hume.



Linear tungsten halogen lamps.

12 to 75W are offered, and all operate at a filament temperature of 3000 K. Rated life is 2000 or 3000 hours depending on type.

The most popular 35mm diameter lamps are the 12W and 20W ratings. These lamps have a GZ4 bi-pin base. The most popular 50mm diameter lamp on offer is the 50W although 20W and 35W types sell well. Because of its high efficacy and good beam control, a 50W low-volt lamp can offer a similar peak intensity to a conventional mains-voltage reflector lamp two or three times the wattage, such as a 150W PAR 38 lamp.

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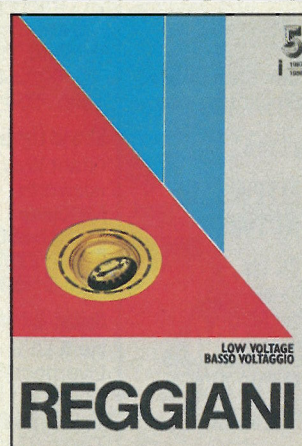
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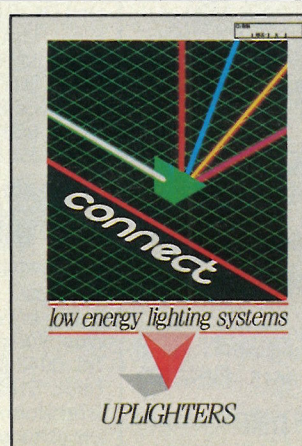
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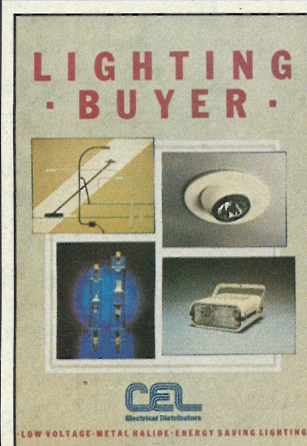
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CEL Electrical Distributors: CEL distributes a range of lighting products from other manufacturers, and this catalogue details the principal makes. It also gives information on the installation of each type of luminaire, and how they look when installed.
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Foerdergemeinschaft Gutes Licht: The German equivalent of our own Lighting Industry Federation has produced a series of booklets on lighting techniques. Illustrated is the pamphlet for industrial sites. It includes lighting design advice.
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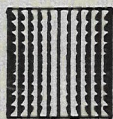


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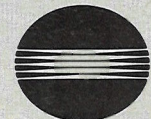
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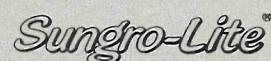
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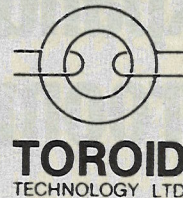
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RH16 1UA
Tel: 0444 450501
Telex: 87117



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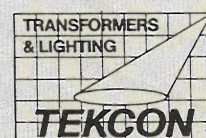
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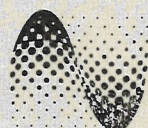
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Chelsom expands, plans showroom

Chelsom of Blackpool, specialist in period lighting fittings, has expanded into a nearby factory three times the size of its previous premises. Staff will be increased by 12 immediately, with other appointments over the next six months.

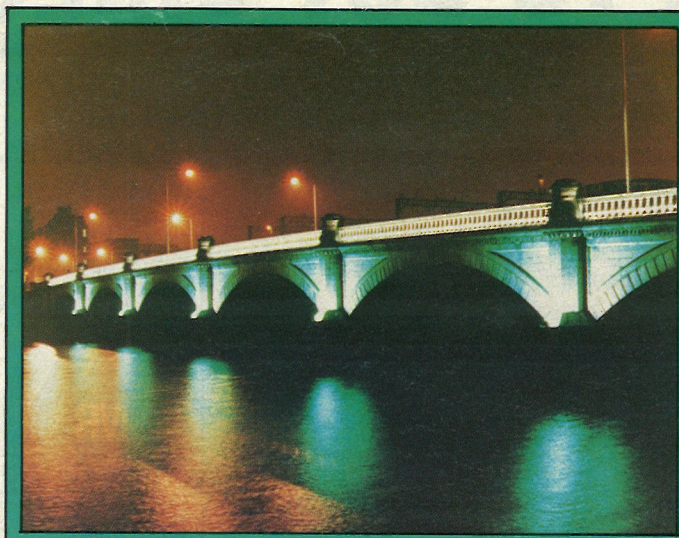
The new factory has 2460m² of production and warehousing space, a substantial car park and is close to the M55 motorway. The offices will be fully computerised with a suspended ceiling system incorporating low glare energy saving fluorescent lighting for the VDU screens, supplemented by low voltage fittings.

A major showroom to serve retailers, architects and contract

specifiers will be opened in spring 1988.

Robert Chelsom, managing director, says, "Over the past five years our turnover has trebled and we've been trying to contain the ever-increasing demand for our products within the old premises. We have now trebled our space and vastly modernised our production lines and administration systems. This means we can go all out to increase sales to the specifying and retail markets while having the facilities to improve our service still further."

New address for Chelsom Ltd is Heritage House, Clifton Road, Blackpool, Lancs FY4 4QA, telephone 0253 791344.



Consultants Hawthorn Boyle Partnership chose Chalmers 684 weatherproof floodlights for this Glasgow bridge. The floodlights are made of aluminium alloy using 250W MBI lamps. The luminaires are rated at IP67. Malcolm Rogen, marketing manager at Chalmers, says "I am sure you agree this is a beautiful installation showing how floodlighting can be used to enhance often-ignored architectural masterpieces." Details from Chalmers on 041-882 3318/9.

ILEA grants stage lantern approval

The Nova range of lanterns from R&G Services, stage lighting engineers, has been granted Inner London Education Authority approval for use in schools, colleges and theatres.

The Nova range was developed by R&G and Narva of Berlin to provide a multi-functional lantern capable of either Fresnel, pc or follow spot role. The basic body

remains the same, while the nose assemblies can be swapped to change the lantern changes.

The lantern is aimed at small theatres such as those found in schools, and at conference facilities and churches. A zoomprofile nose is to be added to the range, and a flood assembly is also on the cards. Details from Greg Moger at R&G, 0594 23197.

Symposium set for churches

As an aid to designers and users of church lighting, a one-day symposium is being held at University College London on 20 April.

The symposium will discuss requirements for good interior and exterior lighting and will consider the conservation of fugitive materials with respect to light — both artificial and natural.

Appropriate lighting equipment and its installation for both lighting effectiveness and architectural sensitivity will be described and details will be given of recent successful installations, ranging from the modest to the grand.

Registration fee for the symposium is £45, which includes a

copy of the proceedings, the new edition of *Lighting and Wiring of Churches* and refreshments.

Further information including booking forms can be obtained from: Rhoda Goodman, Bartlett School of Architecture and Planning, University College London, Wates House, 22 Gordon Street, London WC1H 0QB, (telephone: 01-387, ext. 4829).

The symposium is being organised by the Philips Centre for Lighting Education and Research, Bartlett School of Architecture and Planning, in conjunction with the Council for the Care of Churches and the Lighting Division of CIBSE.

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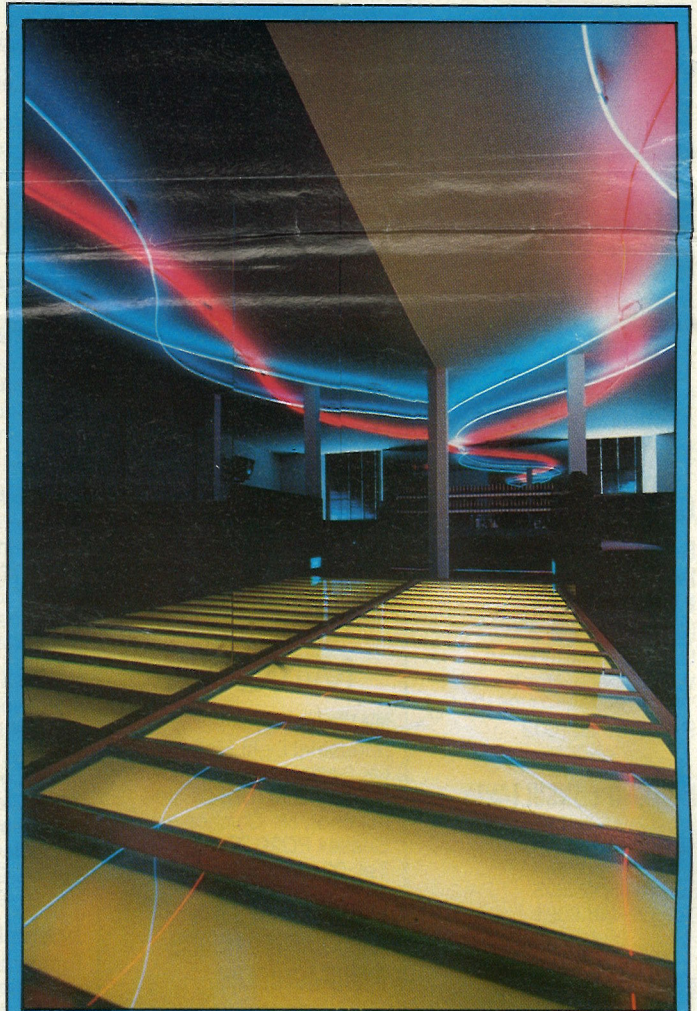
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The recently completed Zig Zag nightclub and Ici Cafe Bar complex in Union Street, Aberdeen, incorporates underlit glass walkways and flowing neon lines as a visual device to link the two sections. Designed by Tony Gottelier of Wynne Willson Gottelier, the light pavements are created by back-reflected architectural strips onto sand-blasted panels and the 10m long stretches of overlapping neon tubes are of ruby red, turquoise and violet. Further details from Tony Gottelier 0732-75204.

IN YOUR NEXT ISSUE

The March issue of *Lighting Equipment News* will focus on offices, amenity and exterior lighting, and look at mercury-tungsten lighting technology.

March will also see the first 1988 issue of *Lighting & Design*. Further issues will appear in June, September and December.

Lighting & Design focuses

exclusively on the architects' and designers' relationship with modern lighting techniques. It carries interviews, illustrated lighting applications stories and technological notes for designers.

The April issue of *Lighting Equipment News* will feature shops, emergency lighting and tubular fluorescent technology.