

# LIGHTING

## EQUIPMENT NEWS

DECEMBER 1990



Le Palais, the famous nightclub in the rue Montmartre, Paris, has recently undergone a transformation. Although the club still retains its late nineteenth century baroque interior, into this has been slotted an ultra modern light and laser show.

The lighting, designed by Wynn Willson Gottelier, is based on a system of four massive moving rigs which together incorporate around 400 light fittings. Each rig weighs about as much as a Porsche Carrera and is initially suspended some 9 metres above the dance floor, but during the course of the evening gradually moves downwards towards the dancers.

Surrounding the dance floor is a high-powered lighting system using Golden Scans, from Italy, which are driven by an inter-active computer control system called Oska. This enables the lighting to synchronise in formations of changing colour, patterns and shapes.

In addition the revamp incorporates a full colour laser system which impinges on four giant gauze screens hidden within the lighting rigs, generating special effects.

## Japanese purchase BLV

The Japanese onslaught on the European lighting industry continues apace — German lamp company BLV has now been sold by American owners Venture Lighting International to Japanese lamp manufacturers Ushio. The company already has a European presence, with a factory and sales office in Holland and a sales office in France.

Ushio is best known in the UK for tungsten halogen and projector lamps, but it also manufactures xenon lamps for the cinema. The group is also active in the areas of office automation and electronics.

By purchasing BLV, Ushio will be enabled to extend its existing product range to include dichroic and metal halide lamps.

## MPs lead on energy saving

Politicians are taking a new initiative to combat global warming by introducing a pilot study on the use of energy efficient lighting in the Palace of Westminster.

The initiative was announced by Lord Whitelaw recently when he presented the National Lighting Awards.

The government White Paper on the environment said that energy efficiency improvements were the cheapest and quickest

way of combating the threat of global warming and a lead to industrial, commercial and domestic users was required.

According to Lord Whitelaw, modern energy saving lamps were being fitted experimentally in some of the rooms in the Palace of Westminster. In dining room A, for instance, they were expected to save nearly £700 on energy over two years of normal use.

"Some 26 ordinary 60W bulbs consume £845 worth of electricity over an 8000 hour period", he commented. "They have been replaced with modern compact 11W fluorescent bulbs which will use only £156 worth of electricity in the same 8000 hour period."

Full details of the awards are given on pages 8-9.

## Racing into the 90s

For the third year Finnish company Helvar will be helping to sponsor the Lombard RAC Rally. Finland is the only country to sponsor a special stage of the rally, and this year is represented by Helvar, the Finnish Trade Cen-

tre and four other Finnish firms.

Film crews from BBC's Top Gear and Grandstand, Eurosport and other satellite stations are covering the Finnish sponsored special stage at Harewood Hill, Nottingham on 25 November.

Rallying is by way of becoming the Finnish national sport — their rally team has won the RAC event no less than six times over the past ten years.

## Wholesalers' guide update

The Electrical Wholesalers Federation has published a twelfth edition of the Installation Materials Standard Wholesale Catalogue. This is the most recent

edition of the publication which dates back 25 years and is revised every two years.

In addition to detailed product information for over 80 manufacturers, the catalogue incorporates current technical information and explains manufacturers' product liability, COSHH and electricity at work requirements.

# Thorn lamps business to go to GE

Thorn EMI and the General Electric Company are to form a joint lamps venture for the next three years, following which Thorn will sell out its remaining light source interests to GE.

Initially GE will have a 51% interest and take control of the new company GE-Thorn Lamps Ltd, in which the two organisations will collaborate on lamp marketing and distribution. GE will also purchase Thorn Lighting's principal European light source interests.

Thorn's factories at Enfield and Leicester, together with Thorn EMI Lamps and Components' plant at Mitcham and Omega Lighting at New Malden, form the heart of the deal. On the European scale, GE will acquire Thorn's 100% interest in Glühlampenfabrik Jahn in Germany and its 51% interest in SIVI Illuminazione, Italy.

The deal — valued at up to £69 million — involves an initial cash payment of £28.5m with a further £28.5m payment when the balance of the company reverts to GE in three years' time. An additional £12m in the form of three yearly contributions of £4m is payable during the first three years of the deal, subject to performance.

Thorn will provide distribution and administration for the new company, thus minimising disruption to customers. In the first year this will cost Thorn Lighting some £8-£10m; later, services will be provided on a cost basis.

GE-Thorn Lamps will be responsible for marketing the products from the UK factories,

including the incandescent lamp sites at Merthyr, Preston and Rodney (near Wimbledon), which remain under Thorn's control and will source GE-Thorn with incandescent lamps for up to four years.

In effect, this supply contract purchases Thorn and its employees a breathing space to decide the future of these plants. GE is to provide advice on upgrading — it currently manufactures incandescent lamps at the rate of 10 000 units per hour in the USA. The corresponding figure for the UK operation is 4-5000 units.

## Global scale

Although large in the European lighting fittings market, Thorn has increasingly proved too small to become a light source manufacturer on the global scale on which lamp businesses now operate. Its fifth position in the world market conceals the fact that it is only one-quarter the size of the next largest player in the market, and one-eighth the size of the combined forces of GE-Tungsram.

In addition to the problems of lamp profitability, the company needed to focus on the European fittings business. It also had to be free to exploit its potential in Asia

and on the Pacific rim — the world's most rapidly expanding market. Thus, Thorn Lighting's 20% interest in Australian lamp manufacturer Elma has, significantly, been excluded from the agreement.

There was also a need to divest the company of its peripheral businesses. This process is now underway. Holophane SA was recently sold to Italian company Fidenza Vetraria for \$21.7m, and other deals are currently being negotiated with separate purchasers. The overall aim is to boost returns in Thorn Lighting to a more satisfactory level as soon as possible.

GE is to some extent trading in the fittings sector in the USA, but this involvement is quite small, and the company's major strength has always been in the light sources business. Adding GE-Thorn Lamps will give GE a 20% share of the European light source market.

The deal makes sense as far as GE is concerned, as it gets round the problems inherent in shipping products for the European market in from the USA. These include transport costs and the question of product standards. A complete reconfiguration of equipment is needed to adapt an American product developed for the 110V/ 60 cycle market for European needs.

In market terms, then, Tungsram provides a better configuration than the USA. It also has the considerable advantage that it is cheaper to manufacture lighting products in Hungary than the UK. GE will be investigating the market in some detail, but it currently expects the balance of advantage to vary between products, as some lamps will lend themselves very readily to high speed manufacture, while with others local availability would prove a greater market advantage.

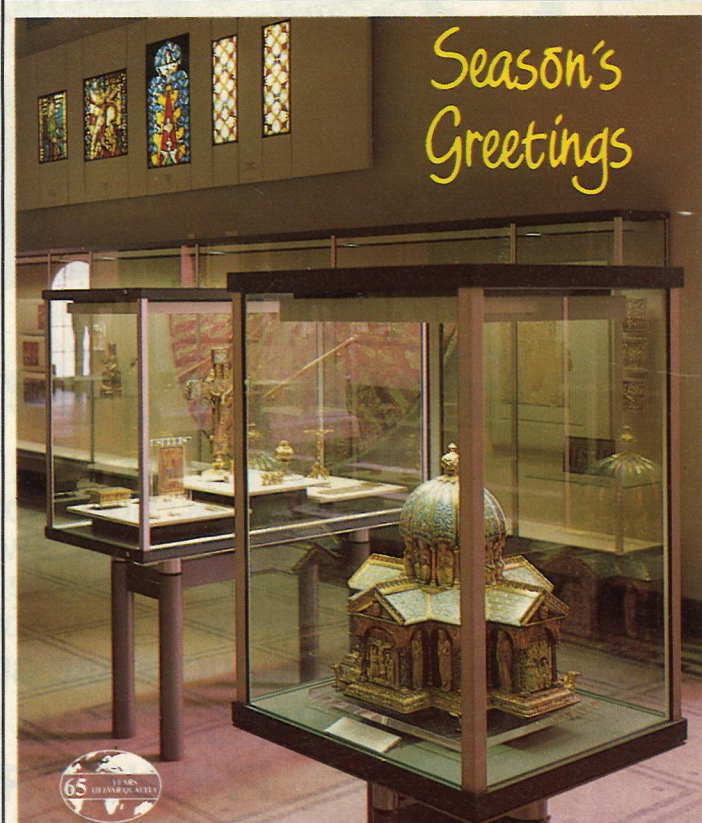
## Highlighting lighting

Hilight, a commercial lighting exhibition and conference, will be held at London's Business Design Centre from 20-23 February 1991.

Companies who have already booked space in the exhibition include Marlin, Philips, Thorn, Erco, Siemens, Osram and Electrosonic.

Among key speakers at the three day conference will be Sir Norman Foster, of Foster Associates, Jane Priestman, British Rail, and Klaus Maack, Erco Lighting.

A special feature at Hilight will be 'The future of lighting', drawing attention to Britain's new lighting designers.



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# DIARY

## DECEMBER

- 5

Lighting and servicing atria. Evening meeting at British Gas, Manchester, held by North West Region of CIBSE. Details from L Daniels 061-228 2331.
- 5-6

Bristol Electrical Show at the Crest Hotel. Details from Technology Exhibitions 081-760 0009.
- 6

The Waldram Lecture: City lights. Evening meeting in London arranged jointly by CIBSE Lighting Division and the ILE. Details from Karl Pike, CIBSE 081-675 5211.
- 12

Automatic controls in building services. Evening meeting at the Royal Victoria Hotel, Sheffield, held by Yorkshire Region of CIBSE. Details from A Simpson 0532 759381.
- JANUARY

6-10

Lightshow, Olympia, London. Details from the organisers, The Decorative Lighting Association 058-84658.
- 9-11

Lighting design. A three-day course in London for those with little or no formal lighting education, arranged by the Centre for Continuing Professional Education, Institute of Environmental Engineering. Details from A H Fuad, director, 071-928 8989.
- 14

Airport lighting. An evening meeting at Belfast International Airport arranged by the Northern Ireland Region of CIBSE. Details from J Patton 0232 732121.
- 15

Young Lighters of the Year. Lectures presented by the finalists and announcement of winners at an evening meeting in London organised by the Lighting Division of CIBSE. Details from member services department 081-675 5211.
- 17

High frequency lighting and lighting electronics. Evening meeting at the Post House Hotel, Southampton, held by Southern Region of CIBSE. Details from M R Dorgan 0703 339300.
- 28-1 Feb

Photometry and management course for lighting engineers. A new course arranged by the Institution of Lighting Engineers. Details from ILE 0788 576492.

# NEWS

## LIGS news

The autumn meeting of the Lighting Industry Golf Society was held at St Georges Hill on 18 October.

In the morning competition the Smart and Brown Cup was presented by David Proctor to the winner T. Cartledge. Runners-up were B. Ramsay and M. Hirst. Prizes for the morning session were presented by R. Oliver of Arrow Plastics. For the guests, G. Yendell won the Bruce Watts Trophy, presented by Bruce Watts.

The afternoon foursomes competition was won by T. Oram and A. Turnbull, playing for the Wilson Cup. In second place were B. Glazer and J. Butler. Prizes were presented by David Proctor on behalf of Smart and Brown.

The LIGS Christmas meeting will be held at the RAC Country Club, Woodcote Park, Epsom on 6 December.



The Chartered Institution of Building Services Engineers

# Lighting for architects

Engineers frequently express their frustration about communicating with architects, especially in matters relating to lighting. In a recent article in the CIBSE Journal, David Farren, a Dublin member, stated: 'The architect is trained to design in terms of form, shape and texture, light, shadow and colour — to think in three dimensions and to visualise light in the abstract (from invisible sources). The engineer is trained to design primarily from technical specifications, calculations, confirmed facts, compliance with rules and regulations, and generally in straight lines. Both methods work for the discipline involved, but the language divides them.'

However, moves are now afoot which it is hoped will improve communication between the two disciplines. The CIBSE Lighting Division is cooperating with the RIBA to produce 'open learning' packages on lighting, which will form part of the series of self directed learning programmes being offered to architects by the RIBA.

The project will involve the production of about 300 learning packages covering some 18 topic areas. It aims to produce learning materials embracing the needs and interests of practising British architects and those postgraduates involved in practical training preparatory to qualifying.

The packages are intended to provide clear, structured guidance to a subject, breaking it down into action areas, identifying key issues, and highlighting the different design approaches that might be used. It is intended that the packages would not simply take the place of textbooks, but will also make use, where appropriate, of audio and video tapes, computer programmes and slides. Furthermore, the student will be encouraged to carry out experiments, appraisals and self-assessment exercises. To date, sixty packages on the five topic areas have been completed and other are in the course of preparation.

CIBSE Lighting Division was invited by the RIBA to advise and assist in the production of the lighting packages, which will cover electric lighting and daylighting, and the interaction between the two.

The subject areas will include: lighting for architecture and people; colour; vision and visual tasks; daylight and building design; electric lighting design techniques; lighting equipment; energy efficiency; and lighting design, calculations and measurements.

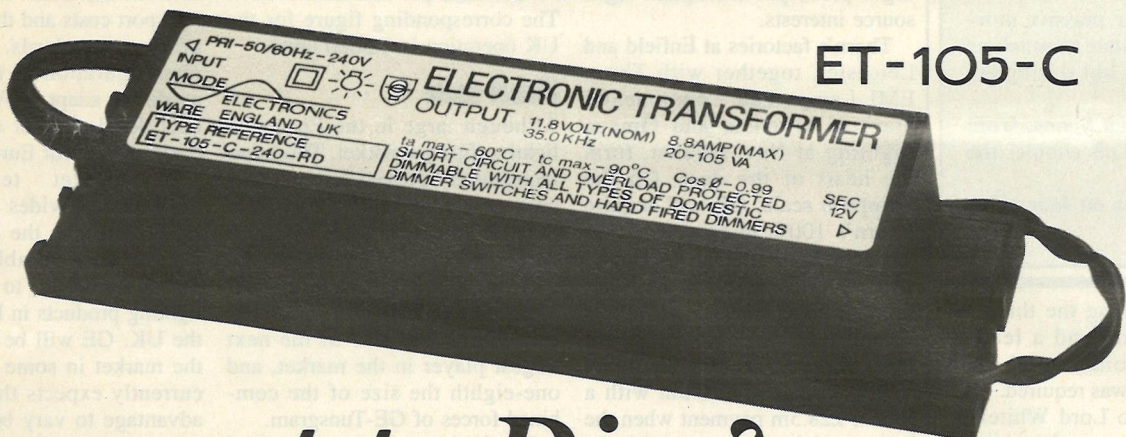
Each package is monitored by a practising architect and a practising lighting engineer to ensure that the terms used are understood and meaningful to people from both disciplines.

It is intended that the lighting packages will also be made available to CIBSE members, and it is hoped they will form a communications 'bridge' between the architect and the lighting designer, thus creating a better understanding and appreciation between the two professions.

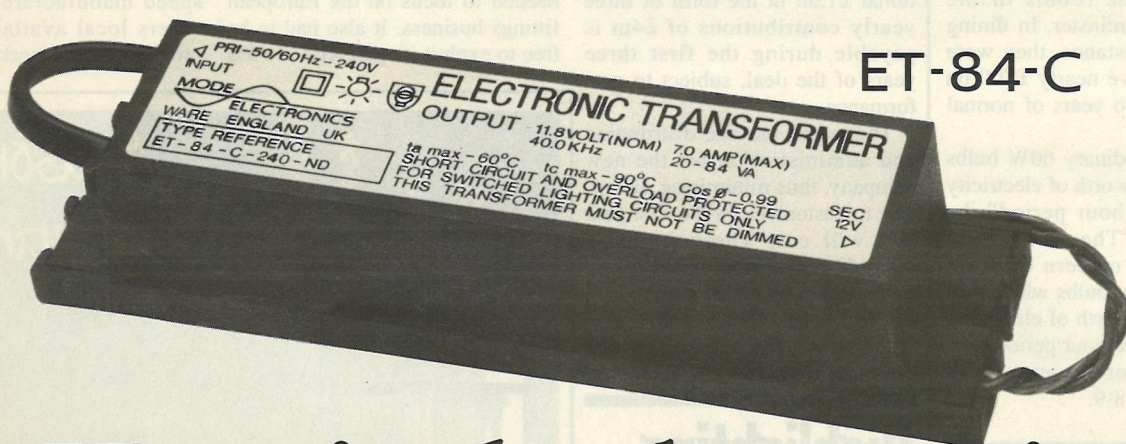
Alan Wilson  
Vice Chairman, Lighting Design

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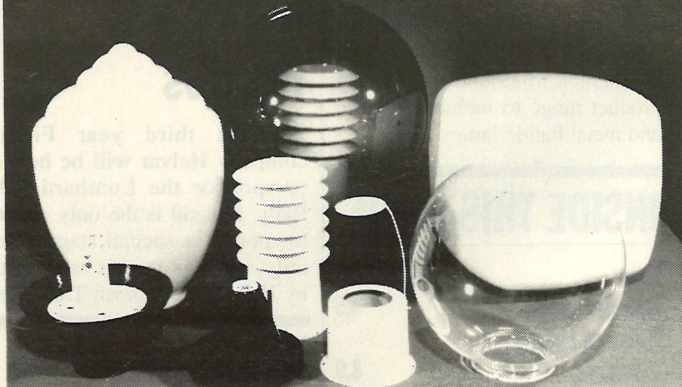
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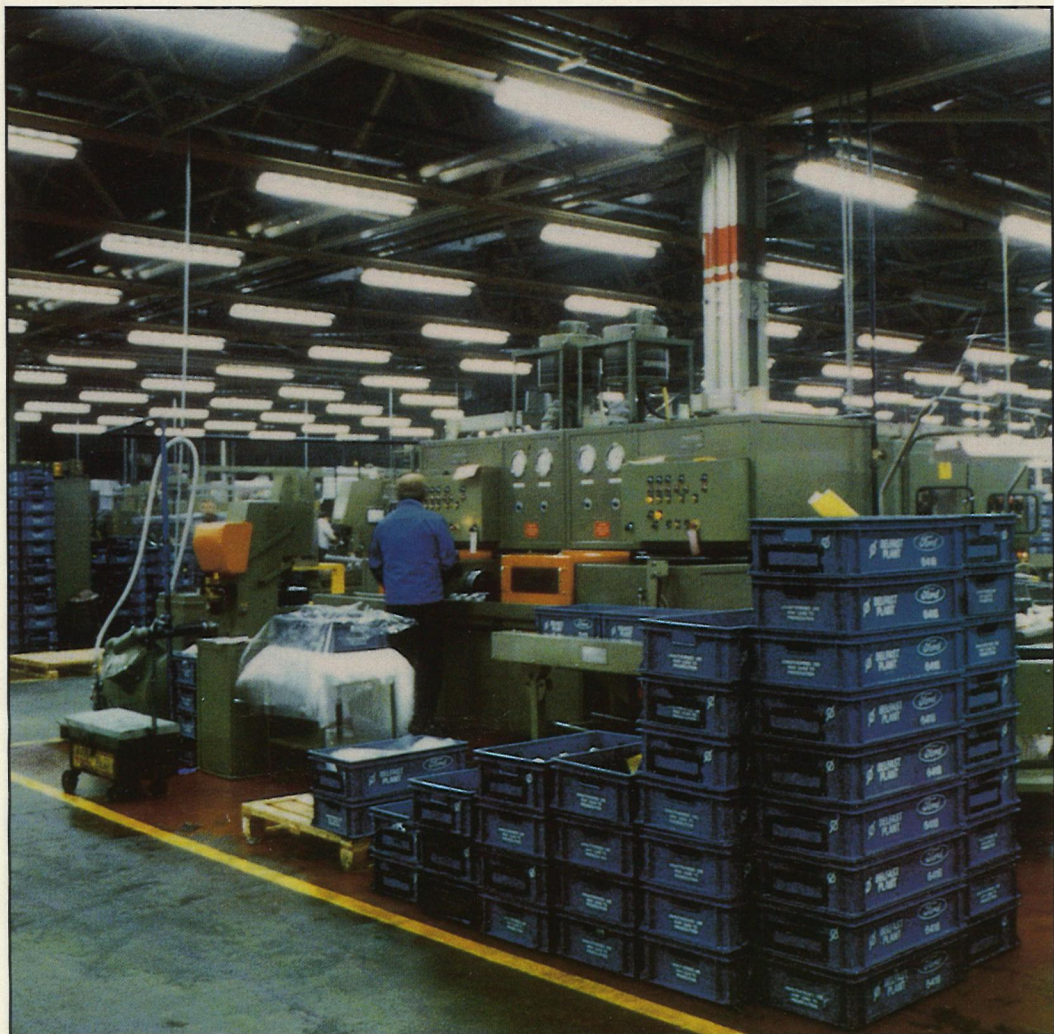
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## Ford becomes more efficient

Relighting the Ford Motor Company's components factory in Belfast with high frequency controlled fluorescent luminaires has resulted in significant energy savings for the company as well as increased illuminance.

The new energy-efficient lighting scheme uses over 2 000 twin-lamp luminaires from the Crompton Parkinson's Crompack range. Each luminaire is fitted with open-end metal reflectors which give positive directional light

control from the 58W white fluorescent tubes.

The shop-floor area of 15 000 square metres with an extension of 4500 square metres, was a considerable size to relight. The factory operates for 24 hours a day, 285 days a year, and the original lighting scheme, consisting of more than 2300 twin 2.4 metre fluorescent fittings with 125W lamps, was extremely uneconomical to run.

By using a combination of high

frequency electronic lamp control gear and smaller but more efficient lamps, the new lighting installation has already achieved considerable energy savings for Ford. Lighting levels have been increased from 300 to 500 lux, while power consumption has dropped from 144.4 kW down to 55.5 kW. This has reduced the annual lighting power consumption for the main plant from an original figure of 382.6 kW to 226.1 kW.

ing and optical design problems that lighting engineers had had to face was in the electronic office with its VDT screens. CIBSE's Lighting Guide No 3 provided solutions to these problems.

Although computers could visualise some lighting schemes, they could not cope with installations such as atria and discos. Mr Bedocs stated that computers were unlikely ever to replace the design flair and experience of qualified lighting engineers, who could apply artistic skills and imagination, and make balanced compromises between intangible aspects of an installation.

He also spoke of the work of CIBSE Lighting Division. Among

its many activities it was launching two new events: the Waldram lecture in December, a celebrity occasion in memory of Jack Waldram, and the CIBSE Young Lighter of the Year competition in January to encourage people under 30 to prepare and present a paper on lighting.

In addition, the Division was responsible for organising the next Lux Europa conference, which would be held in the UK in April 1993 and would provide an ideal shop window for British lighting.

In conclusion, Mr Bedocs foresaw an even greater exploitation of electronic techniques to service lighting needs in the 1990s.

## Lighting in the electronic age

Lou Bedocs, in his recent inaugural address as chairman of the CIBSE Lighting Division, spoke about the role of lighting in the electronic age.

He reviewed progress in lamps, control gear and management of lighting systems. The heart of a luminaire, he said, was the optical system and here computers had assisted in accuracy and speed of design.

One of the most difficult light-

## Building performance considered

The Building Environmental Performance Analysis Club (BEPAC) has announced its first conference, to be called *Building*

*Environmental Performance '91*. It will be held on 10-11 April 1991 at the University of Kent, Canterbury, immediately following the CIBSE National Technical Conference.

The conference will be concerned with both the latest developments in modelling the environment in buildings and with the application of these methods to

the design, commissioning and operation of buildings.

It aims to bring together model developers and users, researchers and practitioners, so that each may better appreciate the others' needs and objectives.

Details are available from Elaine Baker, BEPAC secretariat, BRE Garston, Freepost, Watford WD1 1QQ.

## How to fight crime

A booklet called *The lighting and crime file* has been published by the Institution of Lighting Engineers.

It includes chapters on the ben-

efits of good lighting; the cost of crime and lighting; case studies, and technical solutions.

An action plan is set out to inspire new ideas and motivate people with the aim of bringing about changes that will improve the quality of life of the population. Information sources are listed at the end of the booklet.

It is written for everyone with a

concern about crime, such as local councillors, crime prevention groups, the police, pressure groups, lighting engineers, and commercial organisations like leisure centres and supermarkets.

Copies are available, price £7.50 (£5.0 to ILE members) from the Institution of Lighting Engineers, 9 Lawford Road, Rugby, Warwicks CV21 2DZ.

## Theatre lighting course for UK

A course called *Theatre lighting: design and technology* is to be held in London by the British Council from 3-15 March 1991.

As British stage lighting and controls are known all over the world and British designers often light major productions abroad, the council feels that London is an apt centre in which to study stage lighting and its future.

The course will examine the role of lighting in current staging practice and explore technological and organisational means by which concepts can be developed and realised.

Although intended primarily for overseas delegates, participants from the UK are welcome on this 25-place course. The fee (excluding accommodation) is £880 and applicants are advised to apply before 7 December.

Details are available from the British Council, 65 Davies Street, London W1Y 2AA.

## BSI hits the road

A new British standard, BS5489: Part 10:1990 *Code of practice for lighting for motorways*, covers the lighting of motorways of various widths and can also be applied to purpose-built dual carriageway traffic routes.

The standard covers lighting of the road surface, limitation of glare, lighting surroundings, and tackles the problems of discomfort glare and the limitation of spill light.

Part 10 also gives recommendations for mounting heights, choice of lamps and design considerations.

There are nine other parts to this standard which have either been recently revised or are currently being updated as part of a continuing process to reflect European road lighting practice.

## New BS on lampholders

BSI has now published BS 6776: 1990: Specification for Edison screw lampholders. This gives technical and dimensional requirements and methods of test used in determining the safety and fit of lamps in lampholders and applies to E10, E14, E27 and E40 thread sizes. It is the English language version of EN 60 238: 1989 and supersedes BS 6776. Copies are available price £55.50 (£27.75 to members) from BSI Sales, Linford Wood, Milton Keynes, MK14 6LE.

## Next international lighting gathering

The 22nd session of the *Commission Internationale de l'Eclairage* will be held at the University of Melbourne, Australia from 2-11 July 1991.

The conference of papers and workshops will take place from 2-5 July. This will be followed by technical meetings.

For further details write to Ian F Davies, c/o CIBSE, 222 Balham High Road, London SW12 9BS.

# COMMENT

## Better wrong than never?

Often the outcome of a decision is less important than the fact that it has — for some reason right or wrong — actually been taken. Thus, it is important for UK industry that the resignation of Margaret Thatcher is followed as rapidly as possible by the installation in office of a credible successor. Whether the Tory party goes on to elect the very best person for the job is perhaps less important than that the period of uncertainty and lack of confidence is speedily brought to an end.

The immediate need is to appoint someone who will concentrate on the task in hand — continuing the fight against inflation and helping the country to pull itself out of the recession which has rapidly come upon us following a sharp down-turn in business activity in the summer months.

A steady decline in work load had been confidently predicted. Its beginnings had already been seen in the lighting industry in 1989. The fact that the National Lighting Awards attracted a total entry some 10% lower in 1990 than in the previous year testifies to this fact. More recently, the worrying change has been in the speed and severity of the cut-back.

As with politics, so with industry — and more particularly our lighting industry. A marriage has finally been announced on the light sources front between GE and Thorn Lighting. This will bring the financial strength of an American multi-national to bear on the highly capital intensive lamps side, leaving Thorn to get on with the business of building up its light fittings side, both within the single European market and on the broader international scale.

Whatever one might feel about the long term effects of this sell-out for the UK lighting industry, the important thing is that a decision has been made, removing the doubt and uncertainty hanging over the company's future and affecting the morale of employees and customers alike. We wish them luck in the New Year. And, of course, good luck to all our readers.

## LIGHTING EQUIPMENT NEWS

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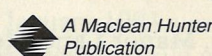
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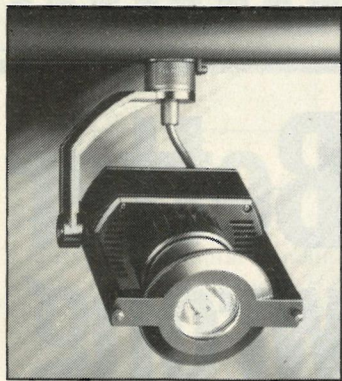


# NEW PRODUCTS

## Spotlight range

Projex low voltage and mains voltage spotlights by Marlin Lighting have been engineered to provide a comprehensive set of lighting tools for tungsten halogen lamps.

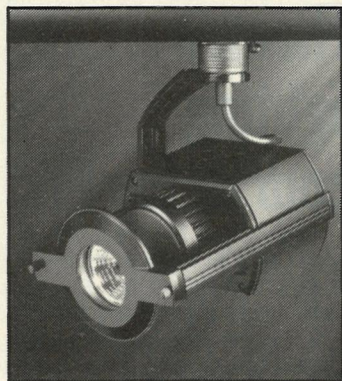
With emphasis on both technical and aesthetic principles, the compact aluminium spotlights use either conventional or electronic transformers. There are track and ceiling mounted versions, and a choice of dichroic lamps (up to



75W), or capsule lamps.

Other options include an anti-glare louvre, coloured filters and a toughened ultra-violet filter.

The mains voltage spotlights



are small, lightweight and use tungsten halogen lamps rated up to 150W. They also accept PAR30 lamps.

**Reader Service No. 160**

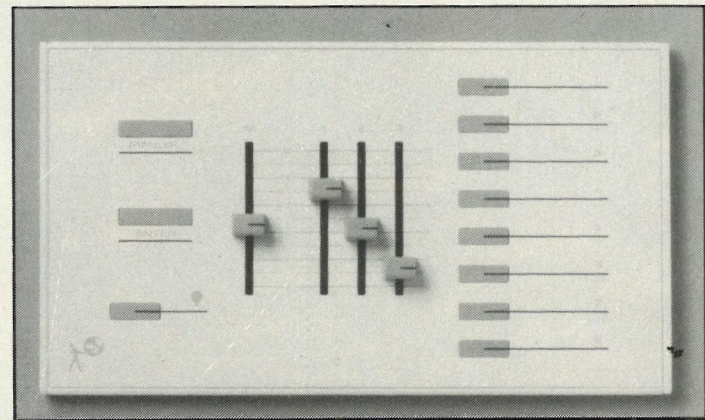
## Architectural lighting control

The Premiere lighting control system by Strand Lighting is designed for use by non-technical staff, such as caretakers or restaurant waiters, to enable them to select pre-set moods for rooms and circulation areas.

Initially, a lighting designer working at a personal computer labels a building's rooms, identifies channels and sets light levels. These illuminances are combined to form scenes or pre-sets, fade times are set up and the data copied to a disc for transfer to the system's program module.

Adjustments can be made on-site from a hand-held terminal.

Premiere is a series of standard components linked by a local area network to create customised lighting control for hotels, churches, museums, theme parks



and conference centres.

The system has 128 channels, each with a possible 128 pre-sets, controlling a maximum of 512 dimmers. With up to 64 control stations ranging from a single push-button to a sophisticated menu-driven command station with alpha-numeric display, it can be custom designed to meet each

user's needs.

Features include an astronomical time clock, disc storage, automatic events, up to 32 rooms per system, and local programming functions. The system also has building management interface and remote control facility using a telephone modem.

**Reader Service No. 162**

## Switch monitors lighting

Liteminder is a passive infra-red lighting control from Setsquare. It can be wall or ceiling mounted

and will monitor either a whole office or the area around one desk.

The unit either operates independently or can be used as a module in a building energy management system.

Zone occupancy and ambient

light levels are checked by the switch. When there is sufficient ambient light in an occupied area, or if an area is unoccupied, the unit switches lights off. When more light is required, luminaires are switched on automatically.

**Reader Service No. 161**

# DISCREET BY DESIGN.



HALOLUX emergency down lighting.

HALOLUX is a self-contained tungsten halogen emergency down lighter that has the good looks to blend in with your lighting scheme.

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tion without any undesirable glare.

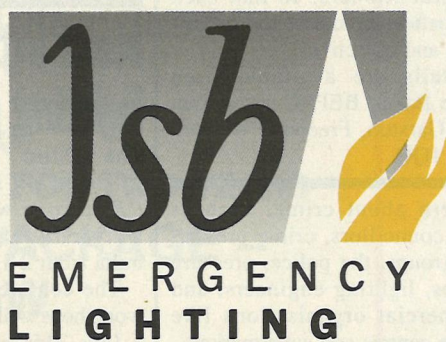
Easy to install, HALOLUX needs minimum wiring and being self-contained requires no remote battery, yet still delivers a full 3 hour emergency performance. Available in white,



chrome, or brass, HALOLUX is the perfect match alongside other down lighters or ceiling finishes.

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## Metal halide downlight

A downlight that uses a single-ended metal halide lamp has been introduced by Green Island. It has a remotely mounted gear box.

The square bezel is supplied complete with protective glass. A variety of finishes is available including gold colour.

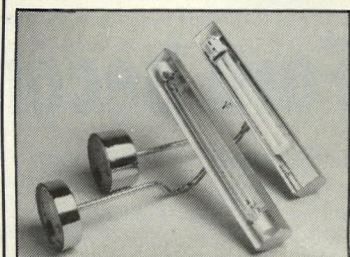
Applications include shop window lighting.

**Reader Service No. 163**

## Energy saving picture lights

Linolite has re-designed its Classic picture light range and included two versions using compact fluorescent lamps.

The Classic range is suitable for hotels, public buildings and



homes. The two new versions use either a 5W or 11W Lynx S lamp. All models are in polished brass with a traditional swan neck and adjustable knuckle joint.

**Reader Service No. 164**

## Illuminated bollards

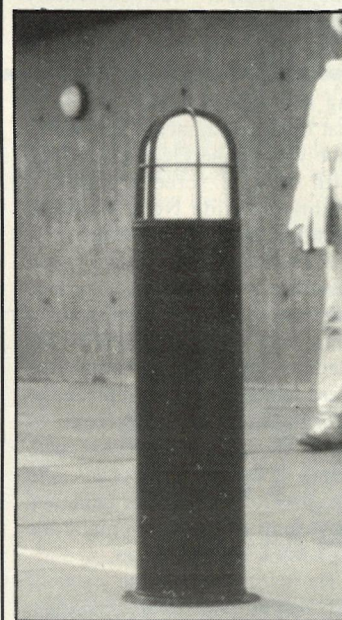
Abacus Municipal is introducing a series of illuminated bollards with a protected, opal coloured borosilicate glass diffuser.

The extruded aluminium bollard shaft is finished with a black polyester powder coating and has a red decorative band around the top. A cast aluminium guard protects the diffuser.

Applications include footpaths, forecourts and gardens.

The AM120 series of bollards can be fitted with either 18/25W SL compact fluorescent lamps or low wattage high pressure sodium or mercury lamps. Ingress protection rating is IP54.

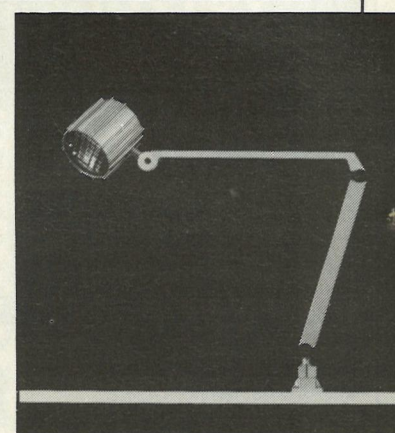
**Reader Service No. 165**



## Bench light has transformer built into arm

A bench or machine light from Midland Machinery Services uses a 55W 12V tungsten halogen lamp. The transformer is built into the lower part of the articulated arm which measures 30mm by 45mm in cross section.

The lamphead which is made of extruded aluminium, has an anti-glare louvre behind a protec-



tive glass. This helps to keep the louvre clean, as well as being a precaution against a broken lamp.

A variety of mounting options is available for this light which is made in Germany by Waldmann.

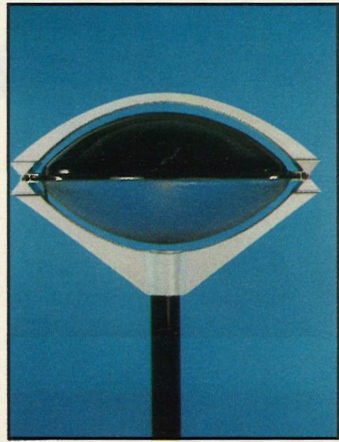
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For more information on any of the products listed, circle the enquiry number on the free reader reply service card.



# NEW PRODUCTS

## Modern outdoor lights



Gema is a modern amenity light made by Urbis Lighting. There are models for post top mounting or suspension.

The standard version uses a high pressure sodium lamp. For locations with different colour rendering requirements White SON, mercury or metal halide lamps are available.

A high performance reflector is stated to improve light output and assist in wide spacing between luminaires. The optical compartment is sealed, so maintenance is reduced to a minimum.

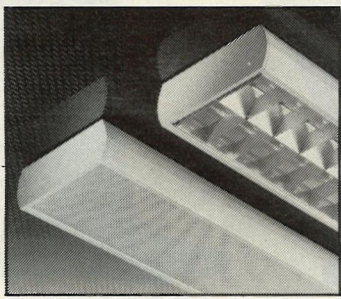
Reader Service No. 151

## Fluorescent fittings have style

A range of high quality, competitively priced, surface mounted fluorescent luminaires has been launched by Crompton Lighting.

Chevin has a one-piece rolled and formed body finished in stoved enamel with flush fitting plastic end caps. The luminaires present a smooth profile and have F mark approval for mounting direct onto plasterboard or tiled ceilings.

The range is available in 1200mm and 1500mm single and twin lamp versions. All models are 225mm wide by 82mm deep.



Standard versions are supplied complete with lamps and switch start control gear, with a choice of low-glare louvre or acrylic prismatic controller.

Optional extras include factory-fitted Convertex emergency conversion modules, electronic start and energy saving high frequency controls.

Reader Service No. 152

## Decorative compact fittings

Green Island has launched a range of luminaires for compact fluorescent lamps.

There is a four-lamp ceiling mounted model, a single-lamp wall light and a twin-lamp wall fitting. Lamps rated at 10W, 13W or 18W can be used.

A choice of colours is available plus a brass finish.

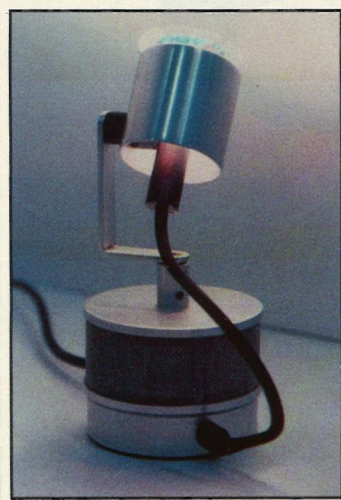
Reader Service No. 153

## Adjustable and fixed LV downlights

LightGraphix has introduced three robust, diecast, low voltage downlights for MR16 dichroic reflector lamps rated from 20W to 50W.

They are suitable for either closed lamps with integral glass covers or open lamps for which LightGraphix can supply clear glass covers or colour filters.

The range consists of one circular fixed downlight and two adjustable downlights — one



## Spotlights for exhibitions

A range of low voltage display lighting fittings has been introduced by Nexo Display Systems. Included in the range are integral and remote transformer versions of floor, panel and ceiling mounted spotlights, all designed specifically for exhibition, point-of-sale and similar applications.

The fittings are made of hardened alloy/stainless steel and particular attention has been paid to ease of installation and to a high quality, durable finish. They are designed to accept lamps with dichroic reflectors.

Reader Service No. 155



## Modular linear lighting system

The Orion modular linear lighting system from Staff Lighting offers flexible solutions to lighting problems. The modular elements are available in three profiles: round, oval and one based on an oval plus round configuration which can provide uplight and downlight simultaneously.

In addition to the use of fluo-

rescent lamps, spotlight elements are available using low voltage tungsten halogen, high pressure sodium or metal halide lamps. Downlights, and also a variety of other electrical services, can be integrated into the system.

As well as providing ambient, task and decorative lighting, Orion can be used as a design feature in its own right.

It is supplied in white as standard, with bronze and black versions at no extra charge.

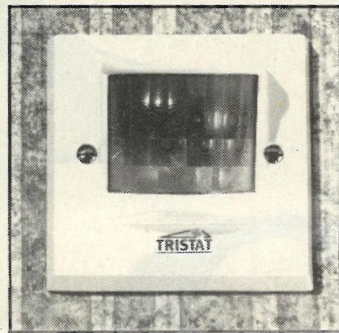
Reader Service No. 156

## Switch saves energy

Tristat Green is a 3kW passive infra-red switch, by Cumbria Products Group, that saves energy by switching off lighting, heating or other electrical services when areas are vacated. It has a built-in delay mechanism adjustable from 1-20 minutes.

When the area is reoccupied, the wide angle detector switches the appliance on again.

Tristat fits into a standard, single-gang electrical box, or it can directly replace an existing light switch. This switch has a



3kW capacity enabling it to control mains voltage tungsten lighting and banks of fluorescent luminaires as well as central heating, air conditioning, extractor fans and electrical equipment.

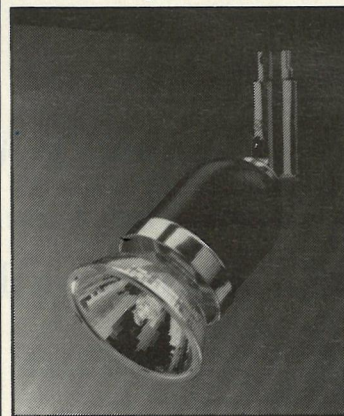
Reader Service No. 157

## Miniature LV spotlight

Hanley, a miniature, low voltage spotlight with remote transformer, has been added to Light Years' product range.

It can be either track or surface mounted and is ventilated at the back to disperse heat.

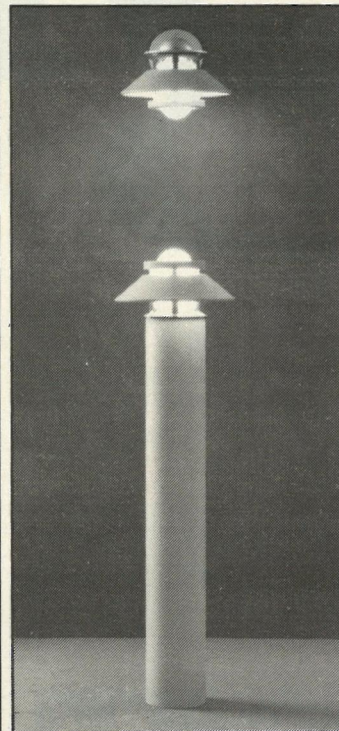
Only 46mm in length and with a 38mm diameter, it can be rotated through 356° horizontally and 90° vertically. The housing is made of powder coated aluminium, finished in either white or black and with a brass trim and supporting arm. The 50W dichroic lamp, which is almost



totally exposed, is easily removed for relamping.

Reader Service No. 158

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



## Decorative exterior lighting

Elmsystems has added to its range of lighting by Lampas, Denmark, an illuminated decorative bollard and matching wall light.

They use 13W PLC compact fluorescent lamps protected by an opaque polycarbonate cover. The housing is diecast aluminium, either coated in white polyester or with a natural sandblasted finish.

Ingress protection rating is IP23. Reader Service No. 159

# LIF LINE

## Power to the people

Energy efficiency, global warming, green issues generally have become flavour of the month again and there has, as a result, been considerable coverage of the part compact fluorescent lamps could play in reducing the demand for power generation and, therefore, the emission of greenhouse gases.

Several pundits standing on the sidelines have been quick to suggest why compact fluorescents have not taken off in the domestic sector and what the manufacturers should do to promote their products more effectively — like chop the price in two, a brilliantly original marketing concept.

However, some pundits are level headed and recognise, as the March Consulting Group did, that the main obstacle to getting the domestic consumer to buy compact fluorescents is the bulbs' initial cost and, interestingly, in the research which they did on behalf of the Department of Energy, they found that fears about performance, physical appearance of the lamps, start-up delay and low frequency figure were unfounded.

The problem comes down to the missing link — the link missing between using the light and paying for it. In the domestic sector, one member of the household usually pays the electricity bill while another does the weekly shopping. The light bulb at 40p a time is considered a grocery purchase, whereas a compact fluorescent at £13 a time is considered a small domestic appliance purchase. The criteria against which each are purchased is very different.

A further complication is the popular misconception that the cost of the light bulb is the major cost of the lighting. Not that the lighting costs that much. During its lifetime, a 60W bulb would run up an electricity bill of around £6.60 whilst its compact fluorescent equivalent of 13W, giving the same amount of light, would use about 78p worth of electricity. The major cost of lighting is quite clearly the cost of the electricity, not that of the light source.

To overcome these various obstacles, manufacturers need to link the purchase of the compact fluorescent lamp with the purchase of the electricity, and not try to sell it separately. This leads us on to the electricity distributors who are in a key position to help — given that they are direct contact with the power consumer four times a year, when the electricity bill drops through the letter box. If, accompanying that bill, a staffer told them that the bill could be lower than it is if they used more energy — efficient equipment a good example of which is the compact fluorescent lamp saving up to between 75% and 80% of electricity, the message would hit home.

It is precisely this that the industry is trying to persuade the electricity companies to do over the coming winter months. Progress is slow as the electricity companies tend to be preoccupied with other problems peculiar to themselves. However, there have been many variations on this theme, tried and tested successfully in other countries, notably the United States, Scandinavia and the Netherlands.

The industry isn't putting all of its eggs into any one basket, even though this one offers the greatest potential. You will, however, find the full range of compact fluorescents on sale in the major high street retailers and the DIY sheds by January 1991.

But the big breakthrough would come if, and when, we can persuade the power distributors to sell lighting as a joint package of electricity and light source.



# THORN

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Reader Service No. 5



The role of the National Lighting Awards is to challenge accepted standards of lighting and to ensure that more people enjoy the benefits of a well-lit environment. *LEN* looks at this year's winners in a two-part feature.

# Best of British

The winners of the 1990 National Lighting Awards have just been announced. These awards were launched in 1986 to promote lighting and stimulate an awareness of the role that high-quality lighting plays in everyday life.

The competition, organised by the Lighting Industry Federation, is divided into four categories — commercial, civic, leisure and industrial — and within each sec-

tion a winner and two highly commended schemes are sought.

In order to preserve the prestige of the awards, an award will not be made in any section where the assessors feel that the installations entered do not reach the necessary outstanding standard. In fact, for this reason, no premier award was made in the industrial section in 1990.

Worthy winner of the leisure section award is the **Don Valley Stadium** in Sheffield. This was

commissioned by Sheffield City Council to accommodate the 1991 World Student Games. Probably the largest stadium to have been built in recent years in the UK, the stadium has an all seated capacity of 25 000 and provides facilities to an international standard for athletics, football, rugby and indoor training.

The lighting installation had to cover several key factors: it had to provide high quality floodlighting to facilitate TV coverage, there was a requirement to conform to the recent Taylor report with regard to safety and evacuation procedures, and to comply with the lighting recommendations of the major international sports codes of practice. Finally, lighting had to complement the architecture and reveal the contoured roof of the stand.

## Metal halide

Over six hundred 2kW linear metal halide floodlights have been used at the stadium. Of these, 513 are mounted on five 50m high towers and 99 are mounted on the soffit of the stand roof.

The scheme has been designed to achieve an average vertical illuminance of 1500 lux but actually produces 2000 lux horizontally. Four switching levels are available giving a range of 250, 500, 1000 and 2000 lux allowing maximum control, economy and quality.

Combination asymmetric and specular reflectors ensure even distribution, no glare and minimum light spillage.

A contrast between the playing area and the stand has been achieved by the use of an indirect floodlighting scheme using 400W linear high pressure sodium lamps on the latter. Both the white canopy of the roof structure



The Don Valley Stadium, Sheffield — winner of the leisure section.



Commercial winner was the Cheltenham and Gloucester Building Society headquarters near Gloucester.

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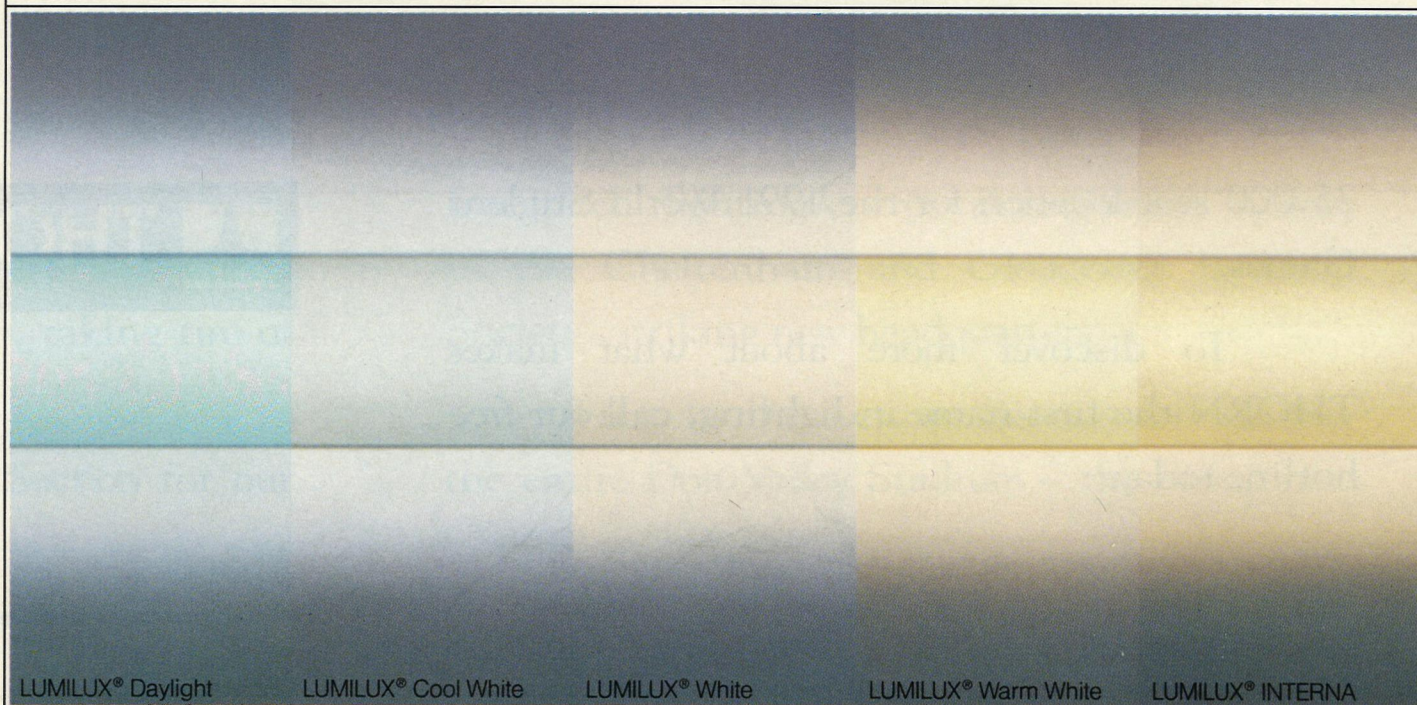
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## LIGHT CAN BE WHITE, WHITE, WHITE OR WHITE:





and the yellow painted structural elements of the stand have been effectively highlighted while remaining in keeping with the overall design of the stadium.

The highly commended entries in the leisure section provide a complete contrast to the hi-tech sports stadium. The **Dan-yr-Ogof showcave complex** under the Brecon Beacons claims to be the largest in Britain and comprises three cave systems together with tourist attractions above ground and a holiday centre complete with ski slopes and pony trekking.

Until this spring the lighting in the caves was provided by ordinary light bulbs and the sound systems by old car cassette players.

In November 1989, Light Relief was invited to design and install lighting and sound systems for the three caves. The caves had to be ready to welcome the first visitors at Easter 1990.

In Dan-yr-Ogof itself, the largest of the three caves, the geological features are highlighted using a combination of Lee MM50 Environmental low energy units controlled by Zero 88 Delta Dimmers and running on a slow change-over controller. The occasional 500W linear halogen flood was used but tightly controlled beams of light and little colour filter were the order of the day.

### Control systems

In Ogof yr Esgyrn (Bone Cave) which is a single cavern, the first of three more sophisticated lighting control systems was used. Controlled from a synch pulse on the sound tapes, the Zero 88 Orion controller automatically initiates the lighting change so that as the visitor hears the story of the cave and its history, washes of colour and individual spotlights bring an elaborate display to life. The main fittings used here were also Lee Environmental MM50s but with the addition of colour filters from Strand Lighting's Cinelux and Rosco Laboratories Supergel ranges.

The third of the caves is in the form of a long passage with a stream running through it and ends in a cavern with a high domed roof, a waterfall and a lake. As the visitor enters there is a display featuring Neanderthal man and cave painters, which has received a similar lighting and information tape treatment to that in Bone Cave. The cavern at the end of the passage (the Dome of St Pauls) has been given a full



The Dan yr Ogof showcaves, a highly commended leisure development.



Commended for leisure, the Hotel Conrad, at London's Chelsea Harbour.



Making shopping pleasanter — the Gateway Foodmarket, Sudbury.

son et lumière treatment. Here the lights pulse slowly picking out the various features in the cave, then they flash across the water of the lake and finally as the music reaches a climax the lighting dances round the cavern.

Another Zero 88 Orion controller is used here with its set of Delta dimmers and, triggered by pulses from the sound tape, are banks of Faber Gamma 1500W sunfloods. All are fitted with colour filters and interspersed with low voltage spotlights to pick-out the features.

The limestone caves of the complex are over nine miles in length and subject to constant running water and regular flooding. This environment is not ideal for a lighting and sound installation and great care was taken throughout to ensure that all the lighting systems, control systems, cable runs and other items of equipment were well protected from the extremely difficult environment. The lighting control systems were all built into special watertight boxes during installation. In addition, all equipment was carefully concealed from the visitor so as not to detract from the geological features and displays.

Finally, in the leisure section, the highly commended scheme for the **Hotel Conrad** in Chelsea Harbour, London is designed to take into account the many different activities which occur through the day and night. The aim has been to produce atmosphere without the installation being in any way obtrusive.

The brief was to develop a lighting system for the public spaces, entrance lobby area, reception, bar, lounge, dining room, function rooms and corridors. Lighting Design Partnership were sub-contracted by designers David Hicks, to plan the lighting as an integral part of the interior design.

Winner in the commercial section is the new **headquarters building for the Cheltenham and Gloucester Building Society**, situated on the outskirts of Gloucester.

The building is formed around a central atrium which serves as the main access to the four floors of offices. The installation basically comprises two very different areas — the office areas where VDUs are extensively used and the atrium where the technical problem was to combine light sources effectively with natural daylight. Each of these areas demanded a very different form

of treatment. The scheme, designed by Hoare Lea and Thorn Lighting has already been reviewed at length in LEN (see August 1990 issue, page 1).

The two highly commended entries in this section reflect different aspects of the retail trade. The refurbishment of the **Almondvale Shopping Centre**, Livingstone, was planned to create a high quality shopping and leisure building for the district.

The design brief called for good levels of lighting and fittings had to suit the architectural style of the centre. Lighting was seen as an important means of creating an attractive and spacious interior.

### Purpose-built

A purpose-built luminaire system in extruded aluminium incorporates fluorescent lamps and gives both uplighting and downlight. The system also includes integral display lighting sections.

The installation has proved cost effective both in terms of capital cost and running cost and gives good standards of energy efficiency while providing flexibility

in lighting levels.

The scheme was designed by property developer Land Securities Properties' own service engineers and Silvertown Lighting.

When lighting the **Gateway Supermarket at Sudbury** in Suffolk, designers Sparkes Orr were asked by the company to improve the standard of supermarket lighting so that it matched the quality of the displays.

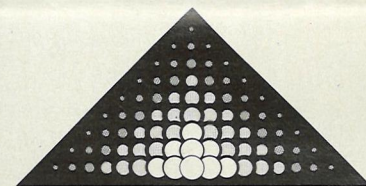
Careful consideration was given to illuminating food products to achieve good colour rendering. Other aims were to eliminate glare and ensure the comfort of the customer. This was achieved by using Philips high frequency fluorescent lamps for visual comfort, combined with mirror diffusers which alleviate glare to the customer and also direct the light onto the vertical plane to create good illumination at all levels on the gondola run. Illuminances vary across the sales area to ensure good presentation of all products at the range of heights within the display.

The result is an environment which helps to reduce the stress associated with shopping.

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# Christmas humbug

## — or mind that illuminated dwarf

Christmas seems to bring out the worst in decorative lighting. **Mike Morrison** of *Crescent* takes a lighthearted look at the High Street

I wonder if the Christmas story would have been substantially different if the happy couple had not passed by the Bethlehem Hilton, which was in darkness because the Christmas lights had blown a fuse the night before. Room 517 on the executive floor certainly does not have the romance and mystery of the stable; and gold, frankincense and myrrh would have been consigned to a safe deposit box in the absence of any responsibility being assumed by the management for valuables.

The phrase 'Christmas lights' conjures up almost the same image in the minds of everyone: long lines of multicoloured tungsten lamps strung between lamp-posts or stuck to the walls of buildings in the form of stars and the inevitable Christmas tree. The final design is never perfect because at least 10% of the lamps will be out thanks to either (a) lamp failure, (b) lamp breakage or (c) lamp removal by person or persons unknown, for use in homes where stolen coloured lamps are an essential part of the Christmas fun and life in general. These same people belong to the

section of society that apparently cannot function without the possession of a magic talisman such as a stolen road sign, a flashing roadworks beacon or a number of pub glasses.

If a vast array of flashing coloured lights does not drive people into a frenzy of seasonal festivities, then there is still one last weapon that can be brought into the battleground that is the Christmas High Street; and that is the large glowing plastic figures depicting woodland animals, the Seven Dwarves, Bambi and, of course, Santa.

### Autopilot

Please do not, for one second, for one jingle of a bell, assume that I am some latter day Scrooge of the Bah Humbug persuasion. Not one bit of it. My point is that, at Christmas, municipal decorators seem to switch onto autopilot. If it's November then it must be time for vast arrays of flashing coloured lights supported by skip loads of recycled coathangers from the dry cleaners, all festooned with strange pointed plastic stuff that pretends to be Holly. Surely imagination and tradition

could combine to maintain the feel of Christmas without resorting to the predictable and uninteresting. Christmas needs a certain amount of garish decoration. In fact I would miss the customary carols played at startling volume through the mobile sound system of Santa and the Rotary Club.

I just feel that if we can put a man on the moon, invent a telephone that can be used on the 9.15 from Paddington or produce a 5p coin so small you need an electron microscope to spend it, then someone must be able to come up with some novel and stylish Christmas lights.

The first brave attempt was perhaps the laser lights that were used in Regent Street a few years ago. There are certainly safety problems with these high-powered units but provided the system is well designed and installed then the safety of pedestrians, babes in arms, my grandmother and passing jumbo jet pilots is assured.

The most innovative and spectacular use of this kind of equipment has certainly been perfected by musicians such as Pink Floyd and Jean Michel Jarre. They have



Fibre optic Christmas tree lights. Photo: Applied Lighting Technology

transformed their performance by creative use of a wide variety of techniques including lasers, fibre optics and computer controlled spotlights. It would be interesting to see what these lighting designers would produce for the major Christmas features if given the chance.

On a smaller scale the lighting within shop windows does seem to

be catching up — mainly with the use of fibre optics. The flexibility of the medium coupled with the advantages of no heat, long lamp life and ease of maintenance have persuaded a number of retailers to consign their Taiwanese fairy lights to the dustbin. I have seen a number of Christmas trees and other festive displays lit using fibre optic harnesses with up to 500 small light points from one 150W metal halide lamp. These displays are always in full work-

ing order as the failure of individual points is impossible. Either all the points are alight or they are all out and the lamp needs changing. (Usually after 6000 hours).

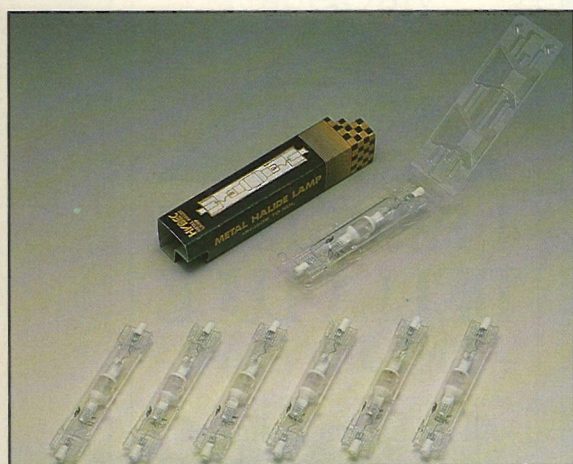
It would be possible to prepare some unusual schemes using some of the new miniature exterior spotlight fittings which use the 50W dichroic lamp or the 50W capsule lamp. These luminaires are extremely small and can provide lighting effects that are surprising from such discreet units. Transformers can be mounted either externally or internally and by careful choice of output voltage the lamp life can be extended considerably.

### Innovations

If, despite all this, it is still imperative to garland the high street/sea front/municipal Christmas tree from the twin town of Baden-Baden with lamps, then there are a number of innovations that have changed the humble festoon systems. One, in particular, uses low voltage tungsten halogen lamps in special sealed globes. This system offers safety, long lamp life and interesting design possibilities. There is also an added bonus that the determined lamp thief, if he finally manages to remove his talisman, will not find many domestic fittings that will accept it.

There clearly must be a better way to handle Christmas lighting displays and I hope that perhaps some of the suggestions I have made will fire the imagination of some designers for next year. The mention of the floodlighting on the Bethlehem Hilton, was of course, this year's deliberate mistake. Everyone knows that electricity did not reach Bethlehem until about 500 AD.

A Merry Christmas to all *LEN* readers, however your tree is lit!  
A Bah Humbug Production



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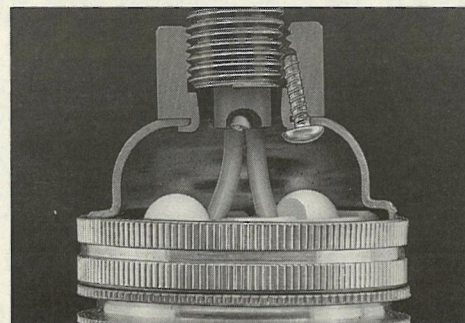
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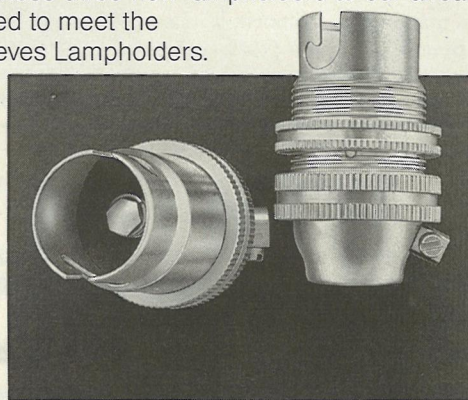
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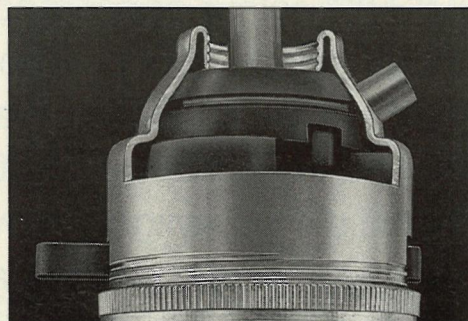
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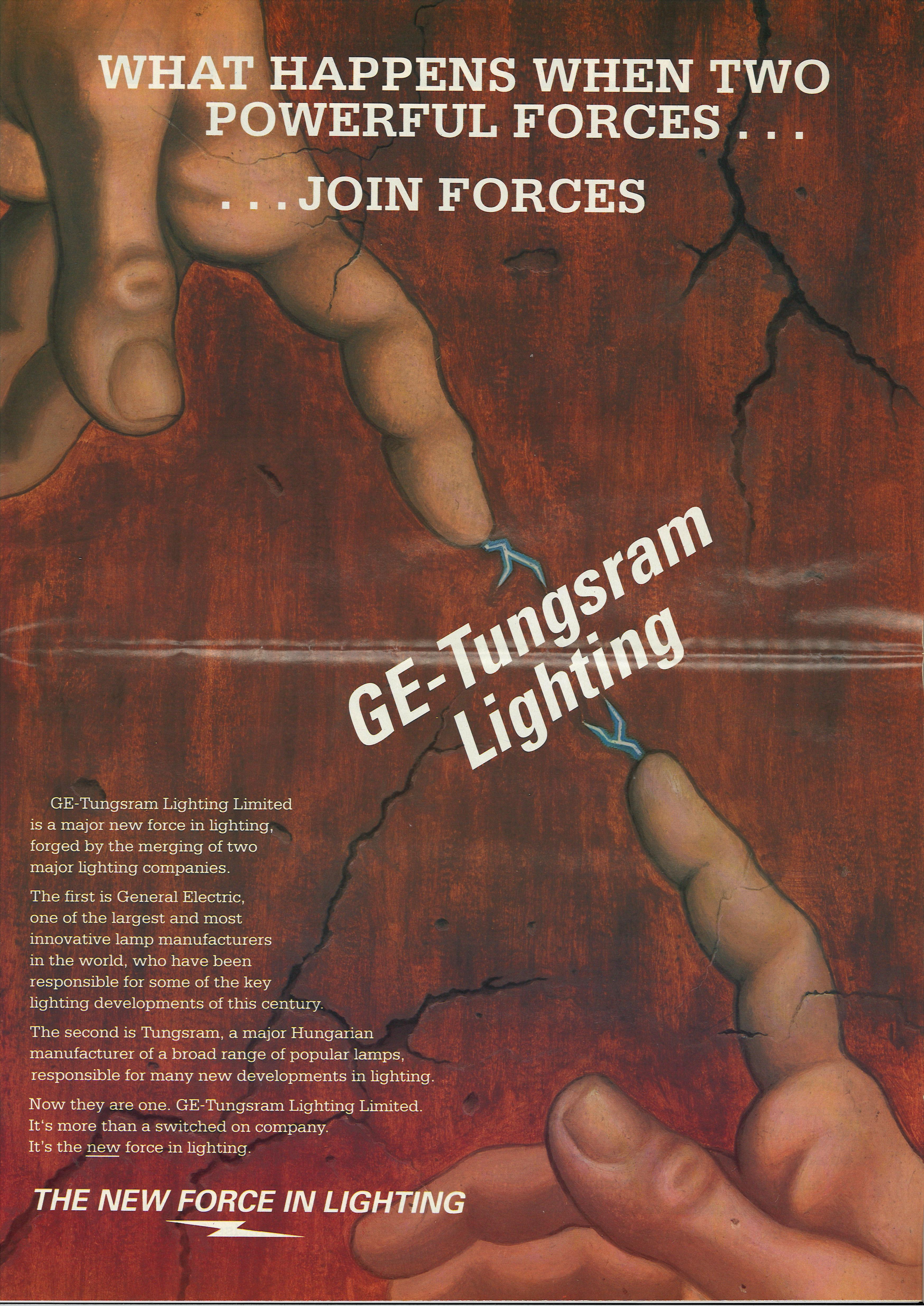
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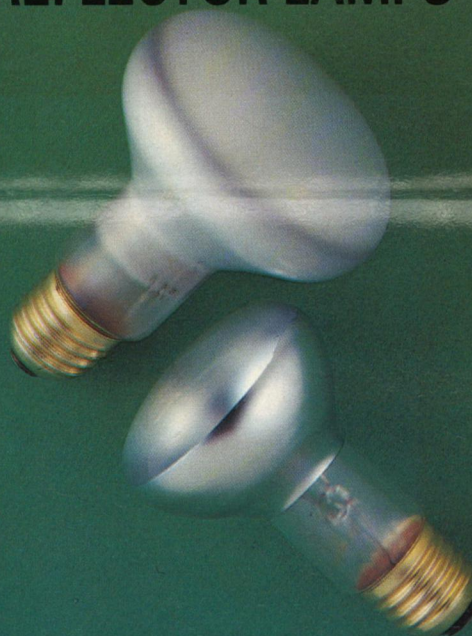
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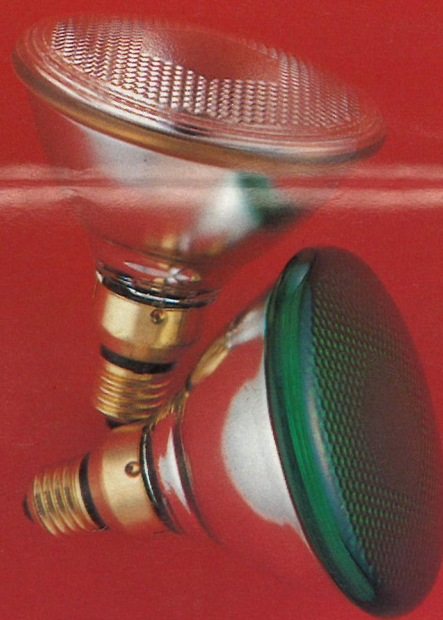
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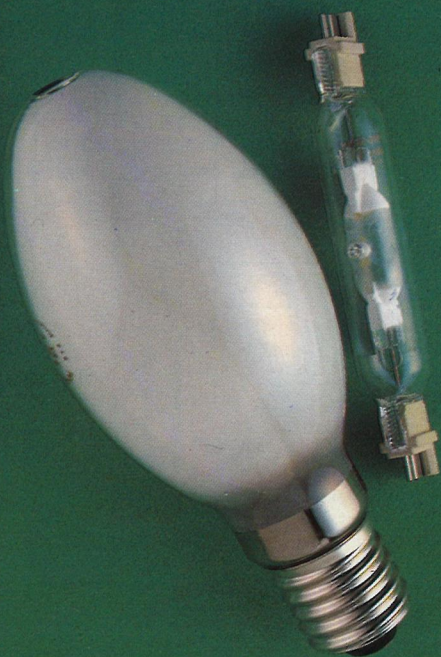


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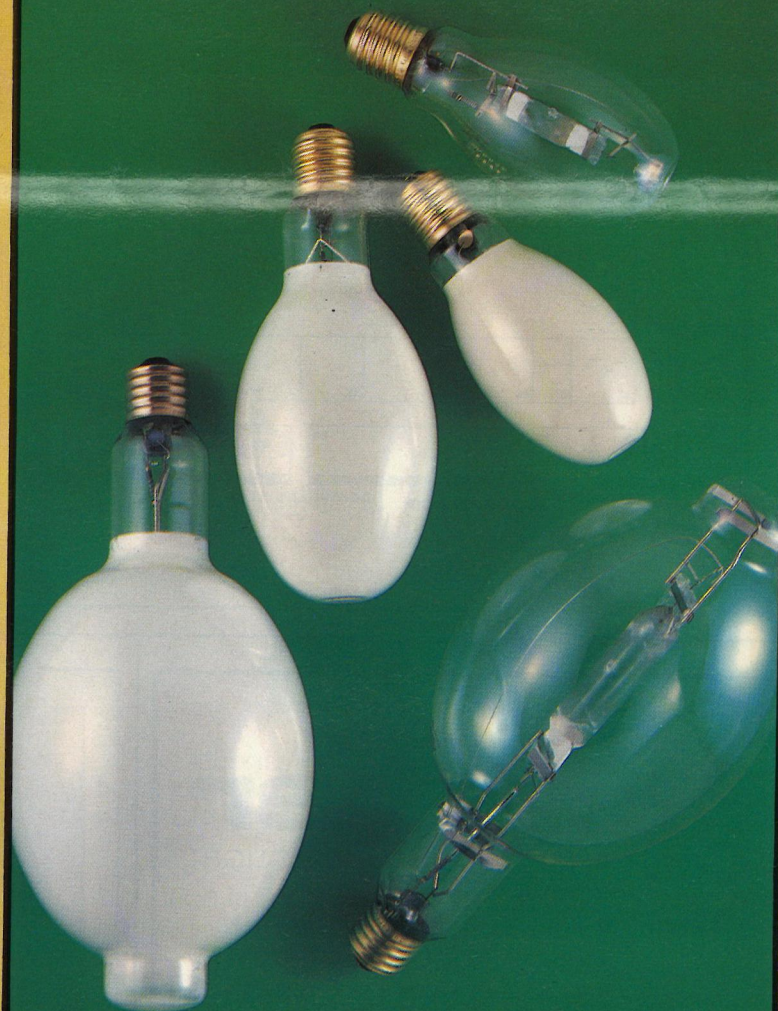
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And to round off the picture, we stock a variety of speciality lamps like photographic, sealed beam and instrumentation lamps.

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## **THE NEW FORCE IN LIGHTING**

Reader Service No. 11



U.S.A.

## **GE-Tungsram Lighting**



# Looking at Lightshow '91

From Sunday 6 to Thursday 10 January two floors at London's Olympia exhibition centre will hold a dazzling display of lighting for the domestic and contract markets.

Variety will be the keynote of Lightshow, offering buyers plenty of choice ranging from low voltage spotlights to oriental table lamps. The only sector not well

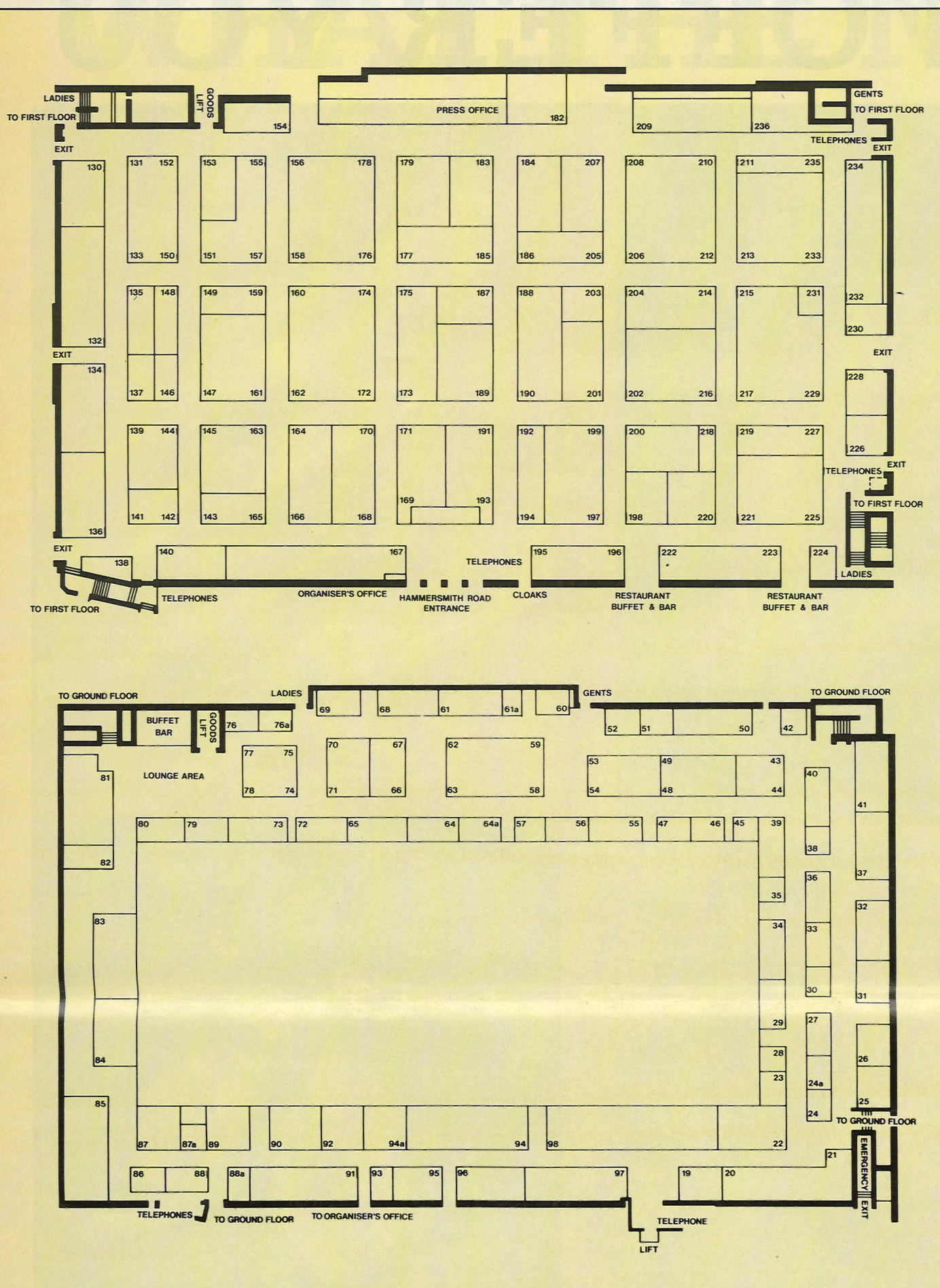
represented will be children's lights — but IMI Reeves will show a new safety lampholder that should solve some problems in that area.

The exhibition will be open from 9.30am to 6pm daily.

For more information contact the Decorative Lighting Association, Bryn, Bishops Castle, Shropshire SY9 5LE (tel 058 84658).

## List of exhibitors

Company	Stand No	Company	Stand No
Action Industries (UK) Ltd	209	D A Jones Ltd	28
Aimby International Ltd	177	KVT Agency	57
Autumn Shades	146	Kensington Style Ltd	66
BC Metalcrafts Ltd	230	Konstsmide UK Ltd	236
BRP Lighting Ltd	141	La Reine (UK) Ltd	40
BSI Testing	Entrance	La Rochere SA	93
Peter Baker Leaded Glass	60	Lenham	30
Lighting		E & H Lewy Ltd	149
Bananaz	52	Lighting & Electrical Distributor	32
Base & Shade Co Ltd	94	Lighting Magazine	138
Bayada Bros & Co Ltd	136	Limelight Lighting	148
Belgravia Arts Ltd	137	The London Trend Lighting	36
Belvedere	24A	Co Ltd	
Bito	219	Loxton Lighting Ltd	140
The British Crystal Lighting	168	Lui's Collection	19
Co Ltd		MDC International Ltd	81
British Electric Lamps Ltd	88	MK Electric Ltd	89
C A Lighting Ltd	97	Maclamp Co Ltd	163
Cameo Shades Ltd	97	Peter Martin Lighting Design Ltd	55
Candelight	31	Mason's Ironstone	189
L J Cannell & Co Ltd	224	Massive UK Ltd	206
Ceramic Import & Mfg Company	68	Metamec Clocks & Lighting Ltd	61
Chad Lighting Ltd	42	Micromark Lighting	98
Chambers International Ltd	211	J H Miller & Sons Ltd	198
Chelsom Ltd	202	W Moorcroft plc	218
The Chinese Collection	91	Neptune Shades	29
Chinoiserie Ltd	151	Noma Lites Ltd	79
Classical Creamware Ltd	97A	Noral Ltd	37
Collingwood VLM Ltd	48	Omega Lighting Ltd	195
County Shades Ltd	215	Oriental Arts (Tony Skinner)	50
Cresswell Lighting	167	Osram Ltd	22
Cristaleis	61A	PLMC Ltd	169
Crompton Lighting	80	P M Lighting	24
Danish Lighting Group	187	Park Rose Ltd	96
Martin Dannell & Co Ltd	73	J & M Parker Ltd	51
Dar Lighting Ltd	147	Philippalia and Chinoiserie Ltd	151
Daveen Mfg Co Ltd	186	Philips Lighting Ltd	62
Deknuld Lighting Ltd	41	Piggery Pottery	74
The Denby Pottery Co Ltd	64	C & H Powell (Meopham) Ltd	226
Dimmer SA	220	J N Preedy Ltd	191
Elstead Lighting Ltd	39	Carlos Remes Lighting Company	201
Ensto Teoranta	25	RoChamp Ltd	200
Fantasia Ceiling Fans	46	Bernard Rooke Pottery	87
Fantastic Lighting Ltd	180	Clive Rowland (Lighting)	132
Firstlight Products Ltd	131	Russell Electrics Ltd	213
Fitzgerald Lighting Ltd	173	C Sandberg & Son Ltd	156
Focus Lighting Ltd	188	Saville E S Ltd	153
Fowler Pottery	45	Scan Lighting	145
Franklite Ltd	232	Searchlight Electric Ltd	160
Frayland Ltd	27	J Segal (Electrical) Co Ltd	154
Global Village Crafts Ltd	72	The Silk Gate Collection	64A
Golden Peacock Overseas	26	Simon & Simon Lampshades Ltd	23
Private Ltd		S Smith (Electrical Fittings) Ltd	34
Gregory's Ltd	38	Smithbrook Ltd	56
James Hackett (I) Ltd	203	Sophie International Ltd	33
Hal-Lite	35	Spectrum Lighting Services	69
R Hamilton & Co Ltd	20	Squire Lighting Ltd	43
Hannah Lampshades Ltd	191	Starlite (Chandeliers) Ltd	164
J G Harding Ltd	53	The Straits Trading Co Ltd	183
Harlequin Lighting Ltd	188	Studio 17 Lighting Ltd	144
Herald Lighting Ltd	94A	Sublime Lighting	143
Horrocks Shades Ltd	135	Supertrim Ltd	88A
David Hunt Lighting Ltd	179	Take Ltd	95
IMI Reeves	65	Helen Thomas Ltd	47
Illuminotechnica	76	Tridonic Ltd	70
Impex (Glassware) Ltd	134	Vectase plc	184
Impex Insurance Brokers	76A	Vitrea (Merchants) Ltd	85
Import Development Ltd	204	Wade Ceramics Ltd	84
InLite (Banbury) Ltd	139	D M Walker (Ltg) Ltd	197
Interiors 1900	228	Walker Picton Mfg Ltd	197
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Italy Direct Ltd	207	Josiah Wedgwood & Sons Ltd	189
JCC Marketing	86	West One Ltd	231
Jackson & King Ltd	222	Wickshades Lighting Ltd	87
Jeremy & Co (Lampshades) Ltd	192	Yew Tree Manufacturing	92



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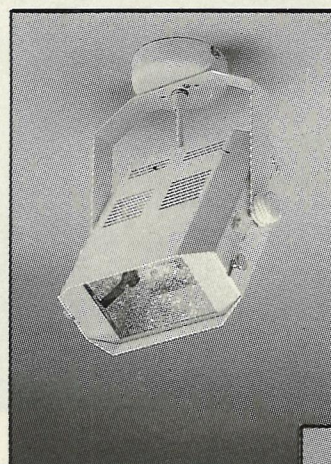
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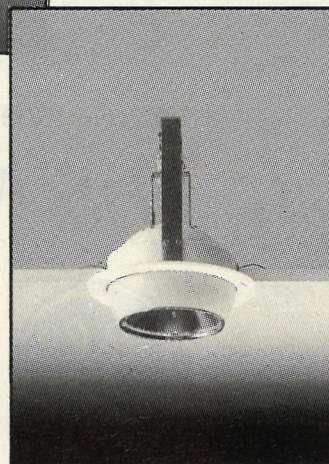
**Mr Terry Palmer (General Manager)**  
**Bosham Industries Limited, Rockall House, Brooks Lane,**  
**Bosham, Nr. Chichester, West Sussex PO18 8JU.**  
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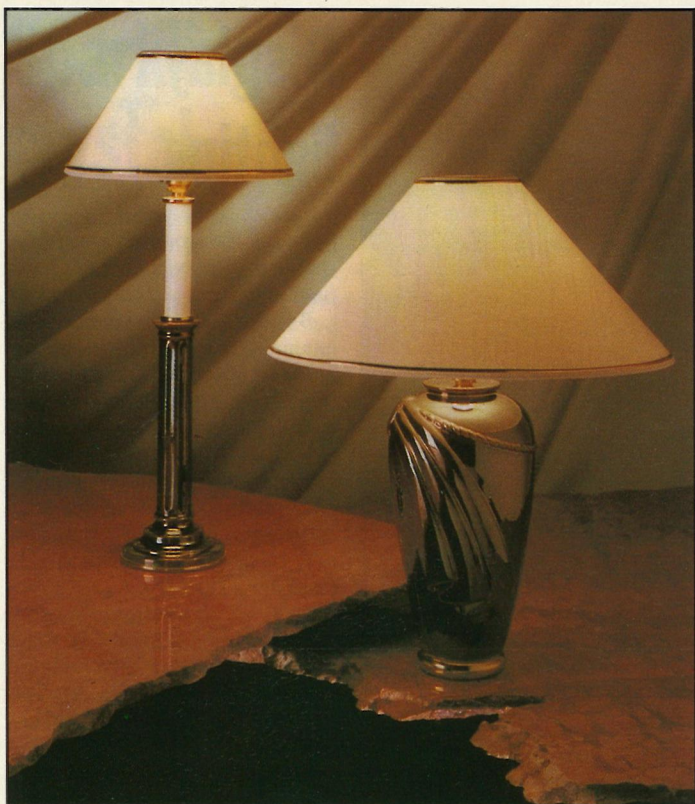
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Two of the table lamps with a new pewter glaze — a candlestick and a draped base — added to Cresswell's Elite range.

## Table lamps for all

The UK agency for Le Dauphin, France, which specialises in up-market table lamps, wall and pendant fittings, has been taken over by **InLite (Banbury)**. A selection of these products will be shown.

A pewter glaze will be introduced by **Cresswell** for ceramic table lamp bases. This range will be complemented by hand finished coolie shades with matching trim.

Additions to the figurine table

lamps shown by **Italy Direct** will include peacock, cockatoo and sea eagle models.

Among the unusual table lamps shown by **Lewylite** will be a ribbed urn, hand finished in matt ivory colour with gilded spines to harmonise with the current trend for pickled wood furnishings.

**Drimmer's** 1991 collection will include lamps in tones of rust, mahogany and bronzed green, models inspired by Mexican and Indian themes, and draped designs.

**La Reine** will display animal sculpture table lamps, capo di monte and English cottage lamps.

**Candlelight's** expanded range will encompass wooden candle-

stick bases and a wider choice of copper green bases. Matching coolie shades have rolled edges and stitched seams.

There will be modern and traditional table lamps from **Sublime Lighting**. A feature will be hand decorated bases with co-ordinated shades. The shades are also available as pendants.

Apart from new figurine and ceramic table lamps from **Daveen**, special colour co-ordination between base and shade will be highlighted.

### Ceramic

First time exhibitor **Lenham** will feature its new hand painted floral

ceramic lamps, while **Mason's Ironstone**, also making its first appearance, will show printed and hand painted bases using rich enamel colours hand gilded using 22ct gold.

**Denby Pottery's** new lamps will be available in Daybreak, Encore, Maplewood and Tasmin ranges. Among matching shades will be octagonal soft drape designs.

**London Trend Lighting** will have a new vase shaped base with motif and 22ct gold trim. This is completed by a polycotton pleated shade threaded with golden soutache.

**Wade Ceramics** has entered the lighting market with bases



One of London Trend's new table lamps available in six colours.



A range of lighting called Pompei, by Deknudt Lighting, has an antique green finish inspired by bronzes excavated at Pompei.

decorated with lithographed prints. These lamps have wooden plinths.

**Classical Creamware** reproduces 18th century ceramics for the fine art market and is now entering the lighting field. It has taken designs for urns and vases from the 1700s and adapted them to create a range of 20th century table lamps.

**Bernard Rooke Pottery** will show abstract and natural history ranges of table lamps, pierced lamps, floor standards and candelabra.

### Shades

**Saville** will display stencilled and appliqué lampshades, while

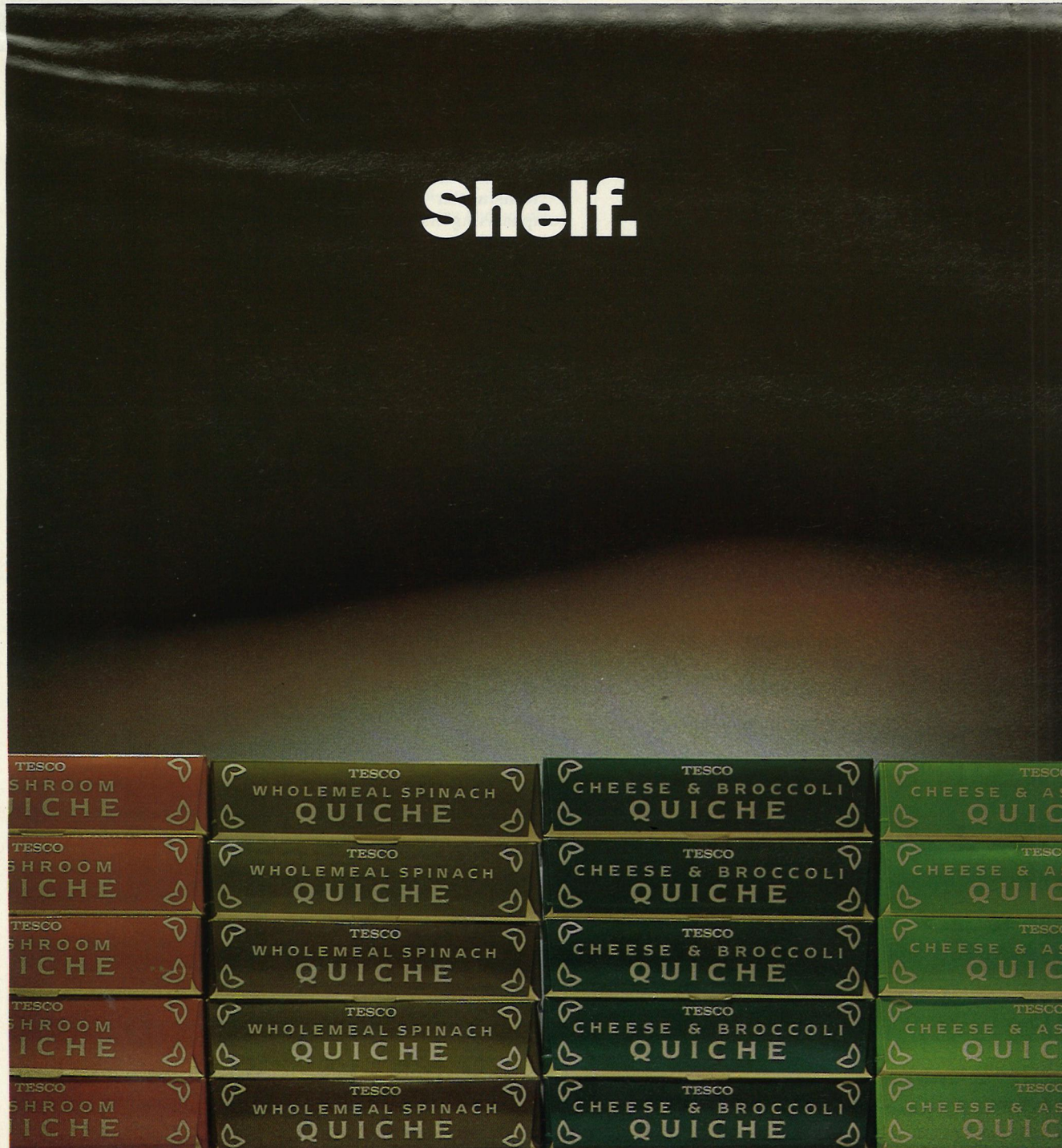
**Limelight** will exhibit its Marbella collection of soft fabric shades.

**PM Lighting** promises a new style of lampshade to compliment oriental vases, and **Hannah Lampshades** will show hand made shades. A new collection will be introduced by **Horrocks Shades**.

**Neptune's** display will include panelled shades. **James Hackett** will offer soft and hard shades. **DA Jones** specialises in hard shades and also makes acrylic dome lampshades.

**Philipinalia** will exhibit a capiz shell range with a lace effect, hand painted over pastel colours.

## Shelf.



## Life.

Glamox are proud to have been chosen to supply lighting systems for Tesco's new breed of Superstores.

The effective illumination of many hundreds of metres of shelf space spread over a large area, combined with the need to create a sympathetic atmosphere for customers and staff is one of our major success stories to date.

So successful in fact, that so far, we have supplied systems to 98 stores, with more coming on line each month.

The benefits of Glamox luminaires can also be seen at the Harbour Exchange in Docklands, the Chelsea Harbour development and at the new Old Bailey office complex across the street from the Central Criminal Court.

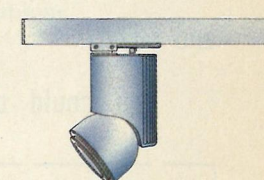
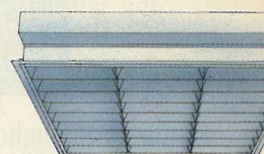
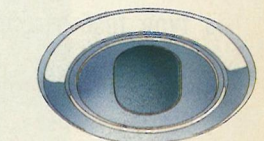
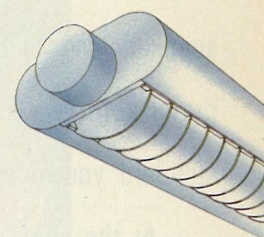
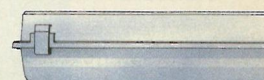
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# From the orient

**Oriental Arts (Tony Skinner)** will be at Lightshow for the first time. An exclusive range of lacquer and porcelain bases created by Chinese craftsmen will be shown.

**Base & Shade Co** is introducing many new oriental lamp bases in exotic designs with matching accessories.

From the **Silk Gate Collection** there will be a display of Kimono, Emperor and Ming table lamps. A much expanded range of hand decorated bases will be seen, together with a selection of handmade lampshades chosen to match the bases.

Among the collection to be shown by **Chinoiserie** are Peony and Fleurs table lamps. Peony has an all-over design of large royal blue and white peonies on a dark terracotta background. The lamps are 300mm heron, and 200mm and 150mm ginger jar shapes.



Fleurs has a Victorian air, with a delicate design of pastel coloured roses on a white background with a jade green border.

Left: one of Base & Shade Co's oriental lamp bases.

Heron designs 200mm and 255mm high and a 115mm ginger jar shape are available.

**Lui's Collection** will launch a range of single-glaze Chinese porcelain lamp bases which will include Celadon, blue, yellow and green glaze. Silk lampshades will be available.

**RoChamp's** 1991 collection of Kutani and other oriental table lamps will have some 50 new designs, including a technique being shown for the first time. A wider range of co-ordinated shades will be shown for the New Year.

Other companies displaying Chinese lamp bases will be **County Shades, The Chinese Collection** and **J N Preedy. Import Development** will also have a selection of blue and white antique reproduction porcelain which can be converted into table lamps.

**The Straits Trading Co** will show oriental, Asian and European table lamps.



# Display lighting

Several companies will be showing display lighting for the first time.

**British Electric Lamps**, for example, will exhibit tungsten halogen spotlights, and **Bito** is introducing tungsten halogen track lighting from Germany.

**Herald Lighting**, which is making its first appearance at Lightshow, will include spotlights, eyeball fittings and recessed downlights among its product range.

**JCC Marketing**, a new company aiming for the contract market, will show low voltage lighting, transformers, a track system and metal halide luminaires.

Metal halide display luminaires will also be shown by **Fitzgerald Lighting**.

Spotlights will be among the new products on the **Maclamp** Co stand.

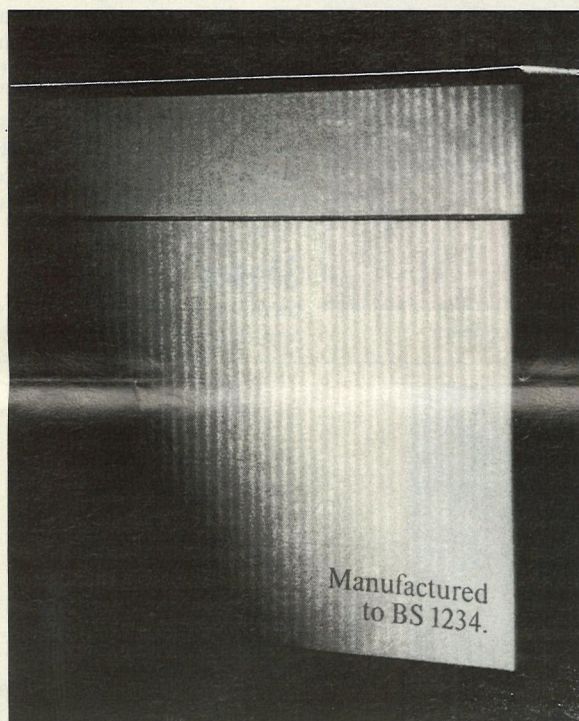
Desk lights by Maclamp with the Cambridge range of floor standards.

You'd be forgiven for thinking that such an endorsement would only be allowed with BSI's blessing.

Not so. As the law stands anyone can claim to have manufactured their products to our standards.

The truth is, not all of the goods embellished in such a way are up to the standard claimed.

So how can you be sure that the products supplied have in fact been manufactured to the standard you've specified?



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At the very least, you should insist on seeing a type test certificate. But bear in mind this only means that the one sample submitted was passed at the time of testing.

It's left up to you to determine whether the manufacturer has maintained those standards throughout production.

Hardly peace of mind for specifiers and buyers.

You could of course go to the

considerable expense of doing your own testing.

But why should you? Surely that should be the responsibility of the manufacturer.

After all, you don't expect your customers to test your goods for you.

If only a quality system existed that really did offer peace of mind to specifiers and buyers.

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keeping, manufacturing control and their ability to take corrective action.

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Well, exist it does. It's the BSI Kitemark, the country's top quality symbol. It proves that a product meets every aspect of the relevant British Standard. On that, you can take our word.



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# Lighting with glass

Ranges of glass panelled lighting and glass pendants will be among the display of **BRP Lighting**.

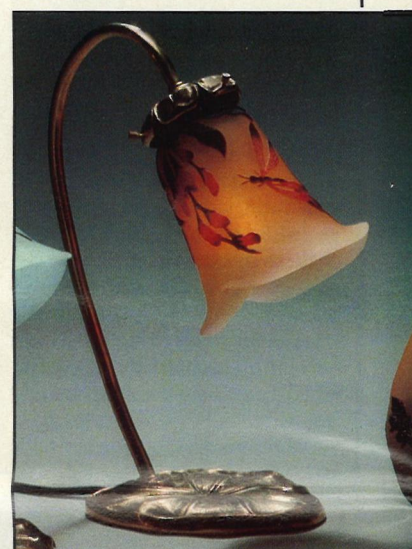
For 1991, **Interiors 1900** is broadening its range to include beaded lamps and shades, paté de verre glass, pond lily and other art glass and decorative glass not previously exhibited. Also on view will be its *art deco* and *art nouveau* lamps.

**Franklite** is introducing a large selection of exclusively designed glassware.

Vibrant **Tiffany** lighting from its workshop in Devon is promised by **Peter Baker Leaded Glass Lighting**, as well as *art nouveau* and *art deco* reproduction lamps.

**Kensington Style** will be emphasising its paté de verre glass and bronze fittings in traditional designs. There will also be competitively priced **Tiffany** lamps.

**La Rochère**, a French glassworks founded in 1475, revived in the mid-nineteen eighties the



Glass table lamp by La Rochère.

Nancy style of glass practised by artists such as Daum, Lalique and Galle. Its lights are made with layers of different coloured glass with classic *art nouveau* motifs.

**J Segal** will show French lighting glass from *Verreries de Vianne*, for which it is UK agent and distributor.

**Chad Lighting's** display will include hand blown and sand-blasted glass and also tungsten halogen uplights.

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## Sparkling crystal

**Impex Lighting** believes we are entering a new age of elegance, when the home is seen as a means of self-expression and there is freedom to mix styles and unlike pieces, each with its own special qualities.

New crystal fittings have been added to its wide spectrum of periods and styles, which includes Strass Hanoverian chandeliers.

**Chelsom** will be launching a collection of small chandeliers, matching wall lights and table lamps from its Regency range of Strass crystal. Frames are in solid brass, polished and lacquered to give a French gold finish; the crystal is hand-pinned with a 30% lead oxide content for extra sparkle.

New crystal and brass ranges will be shown by **Focus**, while **Bayada Brothers** will display gold plated brass chandeliers dressed with Swarovski Strass.



**Fantastic Lighting** will have designs using Strass and Czechoslovakian crystal. **Starlite (Chandeliers)** will exhibit some of its new Bohemian crystal designs that combine tradition with originality.

There will be more sparkling Strass crystal at the stand of

A crystal chandelier to be shown by **Searchlight**.

**Bachmann Chandeliers.**

**Vitrea (Merchants)**, the UK agents for the Czechoslovak glass industry, will have a comprehensive collection of classical Bohemian crystal chandeliers.

## Commercial lighting

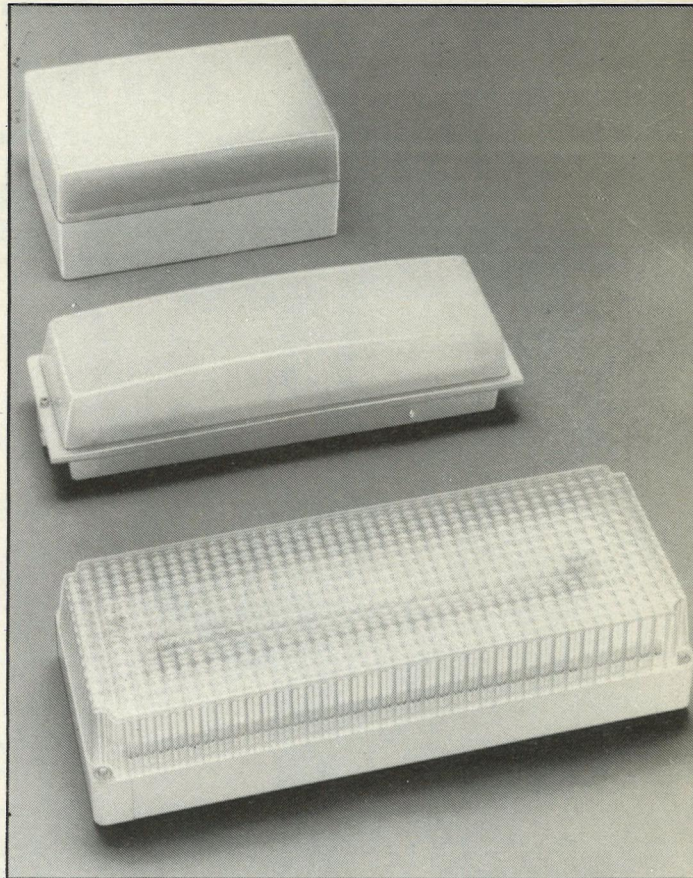
**R Hamilton's** continuous fluorescent lighting system, **Marque X**, will be displayed with new triangular and octagonal profiles. Features that can be incorporated include low voltage spotlights, emergency lighting and public address outlets.

**JCC Marketing** will show a decorative emergency light.

From **Fitzgerald Lighting** there will be surface mounted and recessed fluorescent modules, low bay luminaires, emergency lighting and floodlights.

**Ensto** will exhibit office lighting using 36W 2L compact fluorescent lamps in surface mounted, recessed and pendant versions. A full range of emergency lighting will be shown and there will also be ultra-violet stabilised, polycarbonate luminaires for GLS, 2D and PL lamps.

Right: new range of emergency lighting by **Micromark**.



Desk light from the **Directors Collection** by **Jackson & King**.

## Variety in brass

**Jackson & King** will show its **Directors Collection** of top quality brass desk lights and picture lights. The polished brass is complimented by matt black details.

**Chambers International** will show stepped and ribbed brass table lamps in addition to its existing beaten brass and copper bases. The lighting range displayed by **Global Village** will also include brass lamp bases.

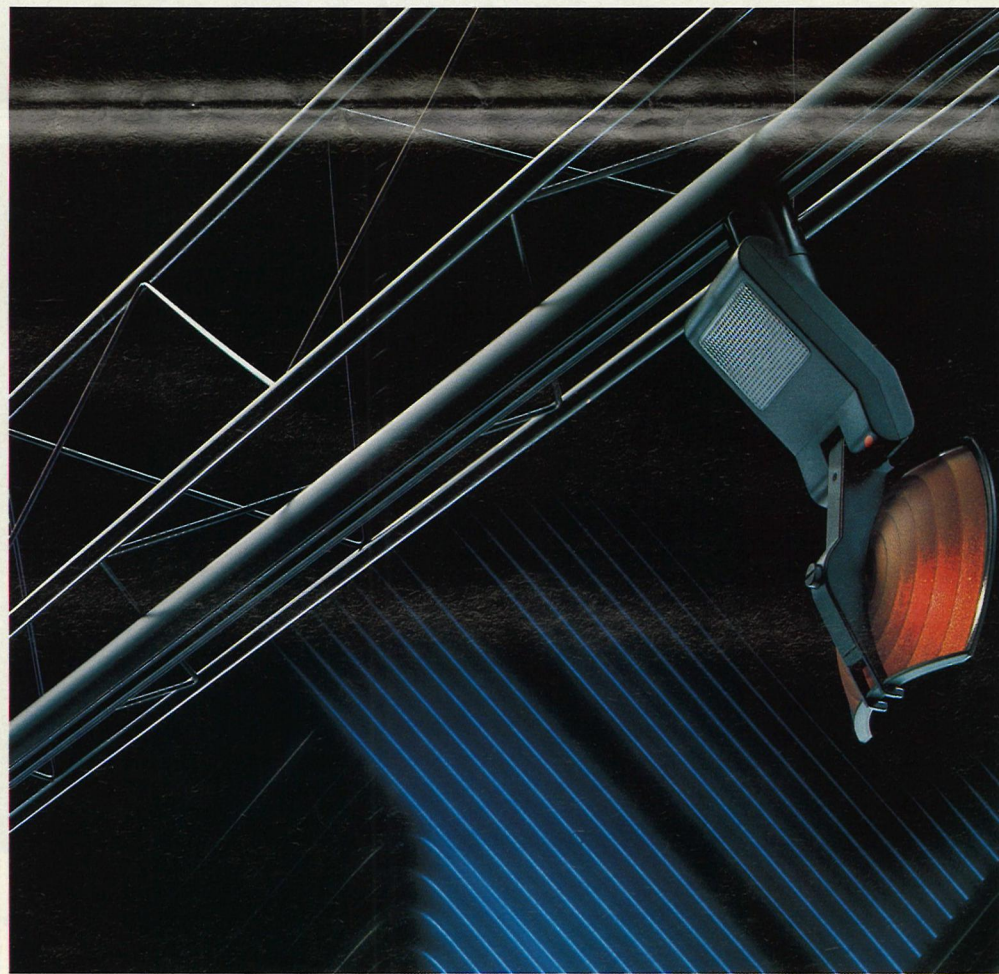
**J & M Parker's** solid brass table lamps will be polished and

lacquered. A new range will have an antique finish.

**West One** will have sandcast brass table lamps. Its **Shade Exchange** range of candlestick lamps includes flat packs of paper shades and a template to make further shades of fabric or paper using the brass shades as carriers. Additionally there will be "antique" brass lamps and candleholders.

**Sheraton**, cast brass ceiling, wall, table and floor lights by **Chelsom** will be seen, along with its Flemish style brass chandeliers.

## STRUCTURA THE SUCCESS CONTINUES



Structura, the unique space frame system by **Targetti**, together with **Targetti's** entire new range of lighting systems, tracks, spotlights and downlights, is available in the U.K. **Targetti's** innovative lighting systems continue to provide architects and designers worldwide with unique solutions for lighting in stores, galleries, exhibitions and display projects in general.

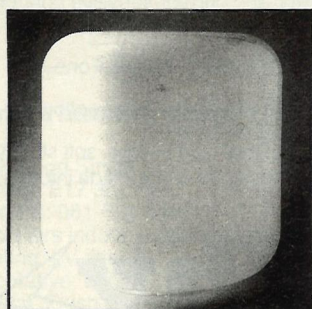
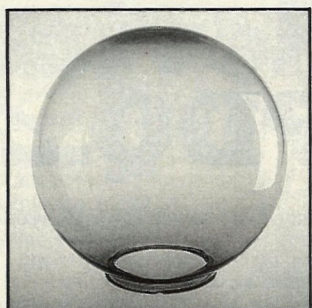
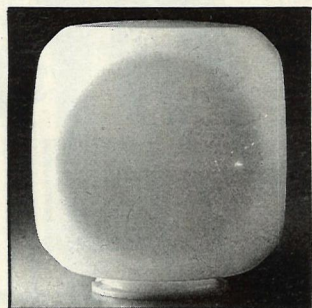
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## Outdoor lighting

Decorative lighting for gardens and patios is still a growth area. Searchlight Electric will have new wall lights, including a cast aluminium series in white or verdigris. All are available with vandalproof glazing.

J H Miller will also be showing outdoor lanterns.

Micromark will be looking for retailers who want to use marketing techniques to make their business grow and will be offering garden lighting as well as indoor ranges.

Elstead Lighting make traditional diecast aluminium exterior lighting and will have new ranges for the exhibition.

For parks, and roads requiring decorative lighting, Ismos will be showing a full range of amenity lighting.

Left: one of Searchlight's outdoor lanterns.



## Lamps and accessories

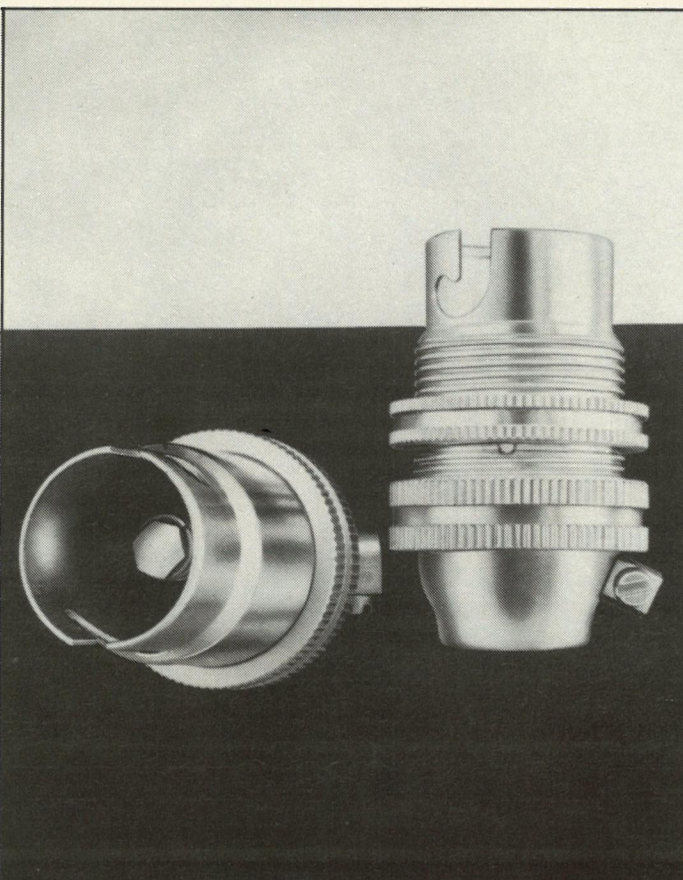
A specially developed lampholder for child appealing luminaires will be shown by IMI Reeves, plus a new lampholder for locking to tube and a push-bar type with integral cord grip.

Omega's extensive range of light sources will be seen including Softglow, Decorspot and candle lamps. There will also be lighting fittings suitable for the home.

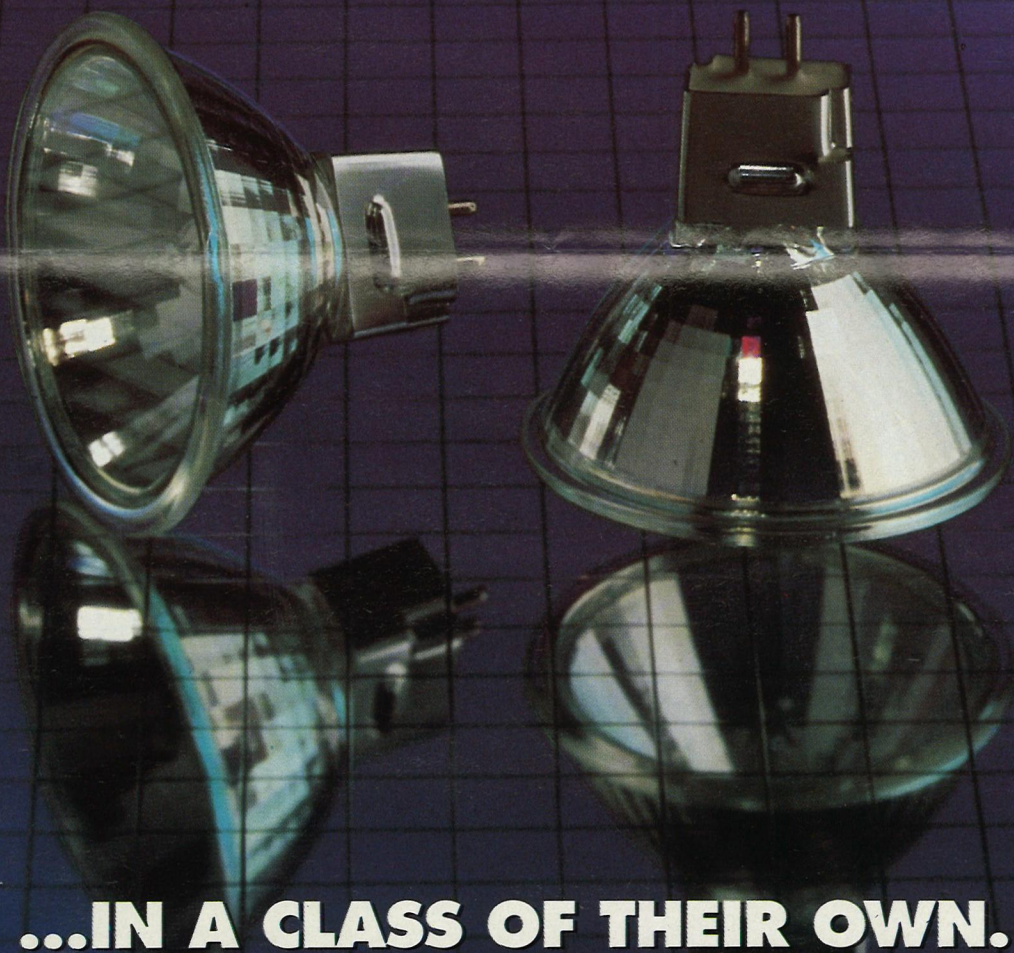
Osram is re-launching into retail lighting and will show light sources and fittings by its new German parent company as well as British made products.

Left: a B15 12V lampholder specially designed for child appealing luminaires, by IMI Reeves.

Below: Omega's latest low energy lamp for the home.



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Philips Lighting



PHILIPS

## It's novel!

Visitors looking for something different will find illuminated picture and photograph frames at the stand of Metamec Clocks and Lighting. These picture lights, either free standing or wall mounted, use 15W pygmy lamps as the light source.

They can also be used to highlight point-of-sale material or illustrations.

Children's lighting designed to comply with the safety regulations will be shown by Bananaz.

Those looking for Christmas lighting should visit the stands of Noma Lites and Konstsmide.

Dar Lighting will introduce a range of Disney character wall lights.

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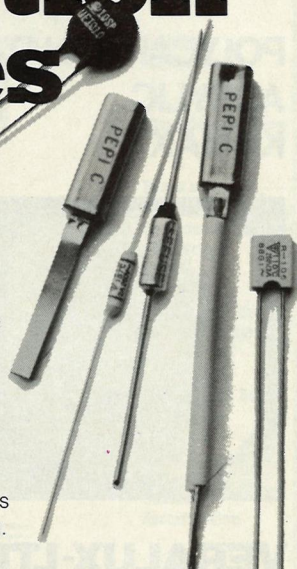
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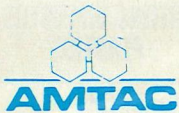
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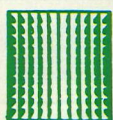
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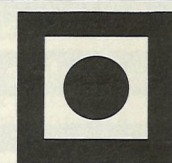
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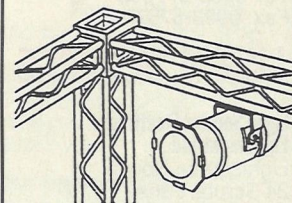
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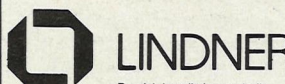
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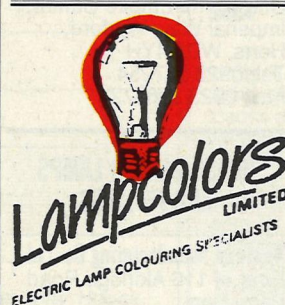
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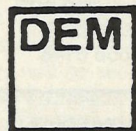
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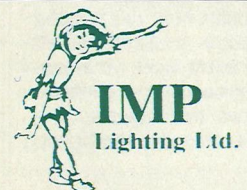
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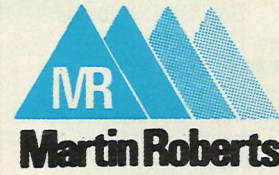


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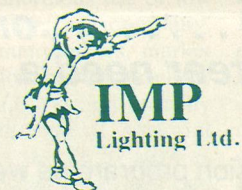


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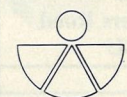
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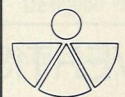
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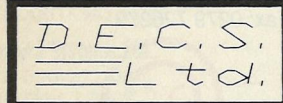
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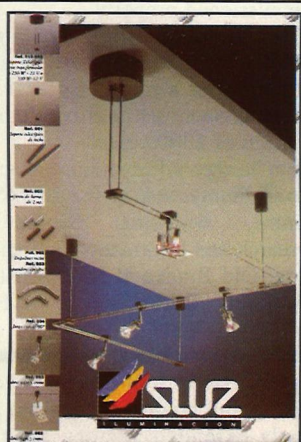
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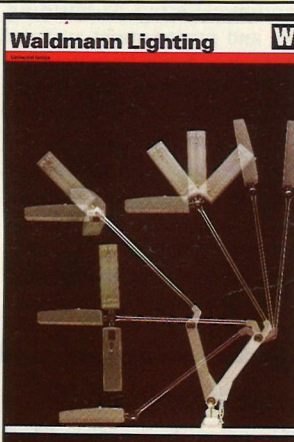
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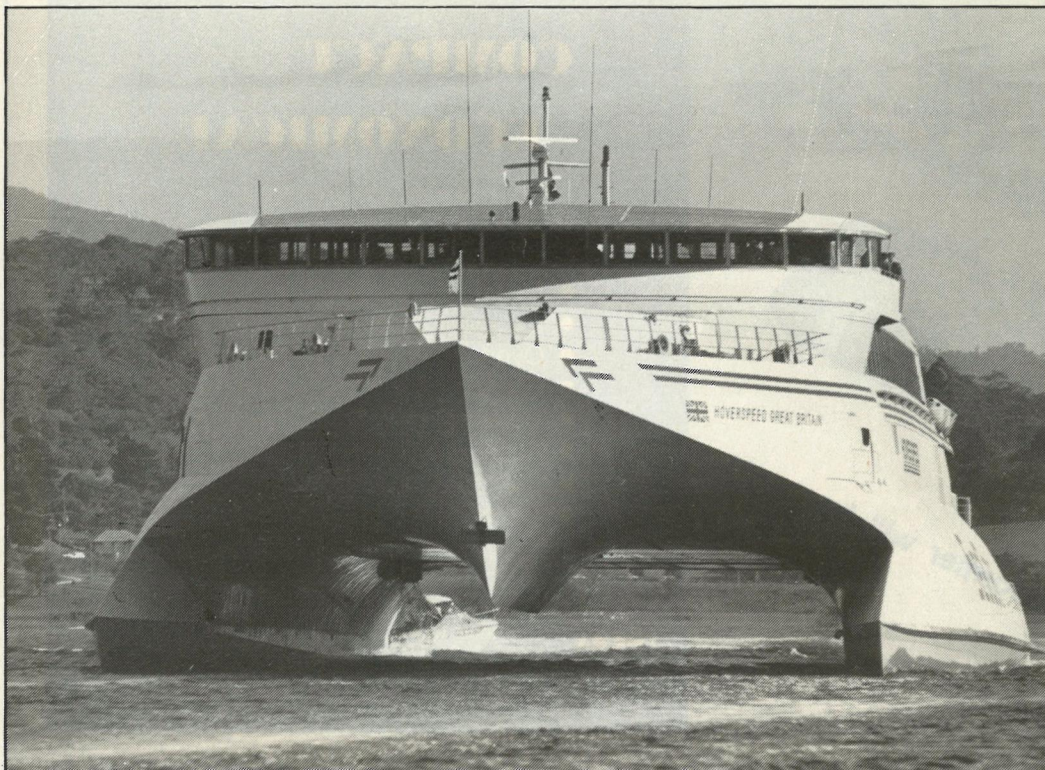
**Relamping Equipment:** a mechanical extension of the human hand for high or inaccessible lamps. Suits Discharge, GLS and Display/Reflector Lamps (amongst others), recessed or otherwise, up to 30 feet high. Saves time and expense, adds safety. Interchanges with our Fire Sensor Test and Access Tools. New Catalogue. Wider range: circle 92



Acorn Lighting is introducing the **SLUZ** range of lighting products from Spain. This high quality range of products, include a low voltage Rod system, low voltage and mains voltage downlights, Metal Halide downlights and spots, Track system and a complete range of compact source fluorescent downlights: circle 90



The new catalogue from **Waldmann Lighting** is available through UK distributors Midland Machinery Services. It shows a comprehensive range of functional task lighting, workshop machinery lighting and specialist magnifier lamps: circle 93



## On the crest of a wave

'Sea Cat Hoverspeed Great Britain', the Catamaran recently put into service as a high speed

cross-channel passenger ferry, is fitted out with lighting supplied exclusively by Thorn's Australian operation — Thorn ALI.

In order to cope with vibrations at high speed and harsh salty atmospheres, the 74-metre vessel uses corrosion and impact resis-

tant fittings throughout the cabins, in the engine room, hold, and walkways. It recently hit the headlines when it broke the trans Atlantic sea crossing record during its journey from Australia to Portsmouth where it is now based.

# NEWS

## Lighting the Belgian pyramid

Strand Lighting has completed installation of production lighting at Studio Little Big One, in Brussels.

The vast pyramid construction, on the Scientific Park, houses production facilities for video, photography, film and television under one roof.

Quartzcolor luminaires, a mixture of Pollux, Castor, Polaris and Arturos, Iris, Cantata and Cadenza profiles are controlled by a Strand Gemini system in one studio and a Strand M24 board in another.

## Racing team's name in lights

The Nissan Performance team, which did so well in the Le Mans 24-hour race, had its name up in lights in more ways than one.

Name panels in the car windcreens were illuminated by electroluminescence. The panels were developed by Avery Aquilla of Essex and the Loctite Corporation of America.

# LETTERS

## Xenophobic?

I read Ed Henderson's article on RFI in your September issue with great interest and would like to congratulate him on the way he handled a very difficult subject with such clarity.

However, I feel that Mr Henderson's approach was a touch xenophobic, with the implication that only British manufacturers, and Intram Barwell in particular, were capable of coping with the requirements of BS800 and, of course, the forthcoming harmonised European specifications. While I would agree that some imported products are not made to the required standards, one cannot condemn all of them because they are imported, which seems to be the implication in the graph in particular.

Our company manufactures in Austria for the whole European market and I have to say that the UK is not alone in setting standards for RFI and, more to the point, certainly not currently the most stringent.

The fact is that what we, as an industry, should fear is low quality underspecified product from any source being sold to an unsuspecting installer who buys on price alone. He may not understand the problems of RFI for other factors which account for the vast differences in the costs of the electronic transformers currently on offer.

But please let us not condemn products in general because they are imported!

**Mike Tatem**  
Marketing manager, Tridonic

## Author's reply

I read with interest the letter sent by Signor Lorenzo Maghnagi on behalf of Forma Lighting concerning my article on RFI featured in the September issue of Lighting Equipment News.

I wrote the feature as an unbi-

ased informative article to emphasise the importance of RFI suppression in conjunction with electronic transformers, not as a criticism of European (or more precisely Italian products) as implied by Signor Maghnagi.

There are many electronic transformers on the market, some conform, some do not. We have tested non-conforming products from both the UK and abroad. The particular example shown is a reproduction of a graph relating to a non-conforming product which happens to be imported. No reference is made to a European product, it could just as well been of UK origin as stated in the second paragraph of the Design Stage section of the article.

I can only assume that Signor Maghnagi read the article with unfounded parochial consternation. We as a company are looking forward with eager anticipation to an integrated European market with all the challenges and opportunities that this will bring, and by no means underestimate our fellow European counterparts.

**Edward Henderson**  
Technical director  
Intram Barwell Ltd

## Not a European attitude

I refer to the editorial feature, Lighting Technology, in your September issue by Mr Henderson of Intram Barwell which reads more like an advertisement for that company than an objective piece on radio frequency interference. I question the journalistic ethics here — and in the most established journal of the lighting industry?

I am not doubting the general text but the tone of the writing even supported by a graph shows imported products as inferior. Hardly a European attitude. The large and small European companies that have been building transformers for many years and

far longer than the company in question are surely not marketing inferior products.

With the enormous use of low voltage lighting my company, along with many others, market import transformers that meet the regulations. *LEN* should certainly publish authoritative editorial matter but it should be seen as unbiased. Perhaps you would care to use the service of an independent laboratory to report on the performance of imported transformers to contribute to a more informative article.

I shall show the offending article to some of the Italian institutes to invite their comment which you may like to publish along with this letter?

**Lorenzo Maghnagi,**  
Chairman, Forma Lighting

## Editor's Note

The articles published in this journal do not necessarily reflect the view of the editor. Features are selected for their topicality and because we feel what the author has to say will be of interest to the readership in general and more particularly to the specifiers and designers of lighting who form the bulk of our circulation. However, I must comment that it is strange that criticism of inferior products is automatically taken to refer to European competitors when this was not even hinted by the author. This correspondence is now closed.

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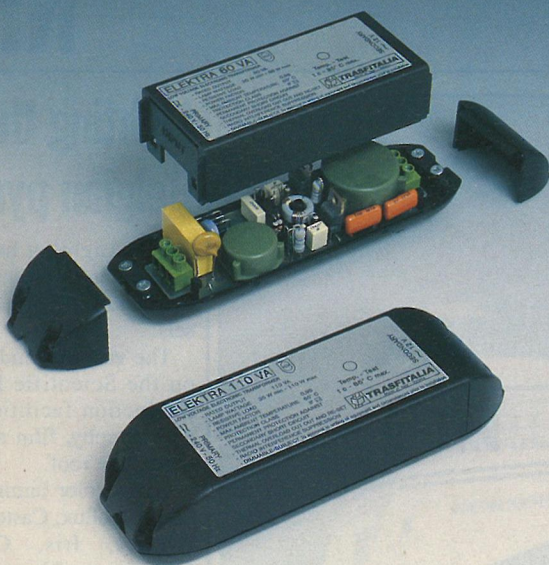


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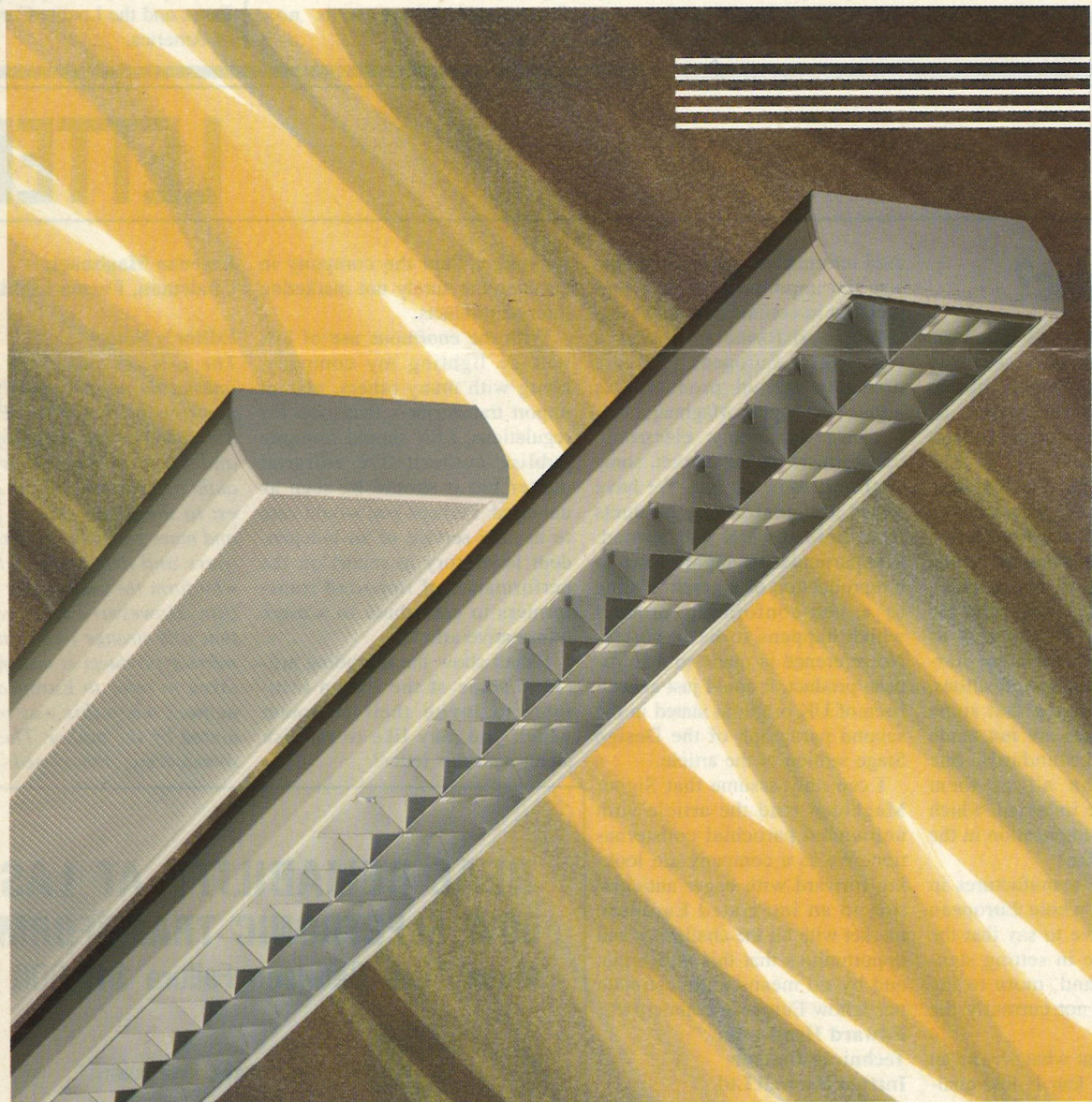
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A GREAT COMPANY IN GREAT COMPANY

## LIGHTING EQUIPMENT NEWS



Compact fluorescent, electronic Dulux EL lamps in brass deck lanterns are lighting HMS Warrior, a restored Victorian battleship moored in Portsmouth Harbour. The Warrior Preservation Trust chose the Osram 7W lamps for their energy efficiency and 8000 hour life, ideal for the ship's 24-hour illumination. With public safety in mind, the lanterns are strategically placed around the ship at the foot of deck ladders and steps and in deck corners.

## HyperLight leads the way

A new software package for lighting engineers, consultants, architects, lighting designers and students, has been written by Joe Lynes, Hull School of Architecture, and Bill Burt, Manchester University School of Architecture.

It is very simple to use; only three keys need be pressed to call up information about designing lighting installations for interiors.

Users can browse through the information at their own speed, printing out any details they choose without being overwhelmed by data they do not immediately need.

For each building type the HyperLight program sets out the options and problems. The user selects the item on which more information is required and can go either deeper and deeper or wider and wider into the subject.

At present three disks are available for IBM-compatible PCs. Disk 1 covers recreational buildings and offices, disk 2 retail premises and educational buildings and disk 3 industrial buildings and display lighting. Further disks are being prepared.

For further details contact J Lynes, 4 Aigburth Avenue, St Georges Road, Hull HU3 3QA.

## Energy saving project needs sponsors

A research project aimed at providing much needed guidance for the commissioning of building energy and management systems (BEMS) has been launched by BSRIA's BEMS Centre. The main aim of the project is to produce a code of practice.

With the adoption of energy conservation measures likely to increase in the future in response to increased levels of CO<sub>2</sub> emissions, one very effective method of reducing energy consumption is the use of BEMS. But for

BEMS to deliver their full potential they must be tested and commissioned properly.

This project has 50% funding from the Department of the Environment, but a minimum of 12 industrial sponsors is also sought at a cost of £3000 each.

For further information contact Kevin Pennycook at the BEMS Centre, Building Services Research and Information Association, Old Bracknell Lane West, Bracknell, Berks, RG12 4AH (tel: 0344 426511).

### Lee becomes Lumo

Lee Colortran International has changed its name to Lumo Lighting following a management buy-out.

The TV, film and theatre light-

ing specialist will continue to offer its full product range from a newly-extended factory at its Kearsley, Manchester, headquarters. A London trade counter will continue to operate from the Wembley premises.

## IN YOUR NEXT ISSUE

LEN's special topic for January is the use of lighting — and, more particularly, display lighting — in leisure buildings such as restaurants, hotels and clubs. Here, lighting must be able to create an

atmosphere which helps promote relaxation.

This will be followed by the final part of the report on Euro luce, the Italian shop window on the lighting industry.