

LIGHTING EQUIPMENT NEWS

1-2 DEC 1988

DECEMBER 1988

Europe holds opportunities

Top management from the building industry attended a conference called *Building now for 1992* held in London in November.

The audience was told that the unified European market of 1992 was irreversible, and in some respects was already here. A rise of 5-6% in the Community's GDP was forecast, with an increase of 1.8 million jobs.

John Drew, head of the UK offices of the European Commission, described it as a challenge and enormous wealth creating opportunity.

From 1992 there will be freedom of movement of goods, services, personnel and capital. It will be possible to put in bids for projects in other European countries and, for example, take part in joint venture activities with companies in other parts of Europe.

There was a need for Britain to export skills and services as well as goods. Jean Paul Maroy, general manager of Ginger (Engineering), said the professionalism of British consultants was respected throughout Europe, but there were operating differences on the Continent, the main one being the division of responsibilities between client, consultant and contractor.

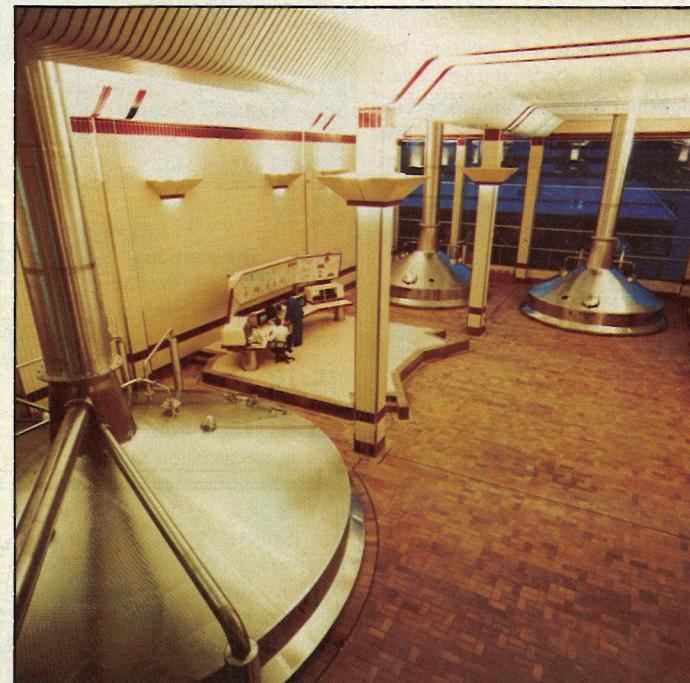
Several speakers emphasised that a reappraisal was necessary of the basic education and training requirements of professionals in the UK and also of continuing professional development.

Compact fluorescents last longer

Philips Lighting is now claiming a lamp life of 8000 hours for compact fluorescent lamps. The company initially guaranteed an operational lamp life of 6000 hours for the SL, SL-D PL and PL-C lamps, and for the SL-D and PLC electronic lamps. But, following an extensive trial period on the market, the lamps have been found to have an average life of 8000 hours. Philips claims that the additional lamp life leads to a reduction in maintenance costs of one third, as lamps need to be replaced less frequently.

INSIDE THIS ISSUE

News	1,16
Diary	2
New products	3,5
National Lighting Awards	6, 7
Lighting technology	10,11
Classified advertising	12
Where to buy directory	13,14,15
Catalogue directory	15



New lamps for old buildings

Modernisation and conversion schemes swept the board in the National Lighting Awards. Three of the four sections were won by refurbishment projects in historic buildings. Even the fourth prize winner, the Victoria Centre in Nottingham, is a scheme for the modernisation and upgrading of a 1960s shopping mall rather than a new building.

The first ever 'double' award has been gained by the main hall of the Royal Museum of Scotland — a winner of one of the EMILAS awards earlier this year. The other three winners, announced by HRH the Duke of Edinburgh on 18 November, are the Courage Brewery Bristol, winner of the industrial section, the Victoria

Centre Bristol, adjudged the winner of the commercial section, and the Missenden Abbey Management Centre, Buckinghamshire awarded first prize in the civic category.

The competition, run by the Lighting Industry Federation to promote a greater appreciation of the benefits of modern lighting, attracted a total entry of over 100 schemes.

For full story see pages 6 and 7.

Top left: Courage's computer-controlled brew hall at Bristol. **Top right:** The Royal Museum, Edinburgh, best leisure building. **Right:** Commercial section winner, the Victoria Centre, Nottingham.

fessional work and how they would put what they had learned to practical use.

Although the bulk of the students come from the manufacturing sector the finalists this year included an independent interior designer and a representative from the wholesale trade.

New ELC secretariat

The European Lighting Council's increasing involvement with the EEC in Brussels has led the Council to appoint a company specialising in liaison work to act as its administrative headquarters, assisting the Secretary General Dr J C Ramaer.

In future the official contact will be Linda Buysse, EVRKA, sa, 5 rue de la Science, B-1040 Brussels, tel: 010 322 2310332/2310252.



Lighting in the year 2000

Benefits of the electronic lighting revolution was the title of the first Philips Lecture held at University College London on 22 November. It was presented by Professor S H A Begemann, senior vice-president of Philips Lighting BV.

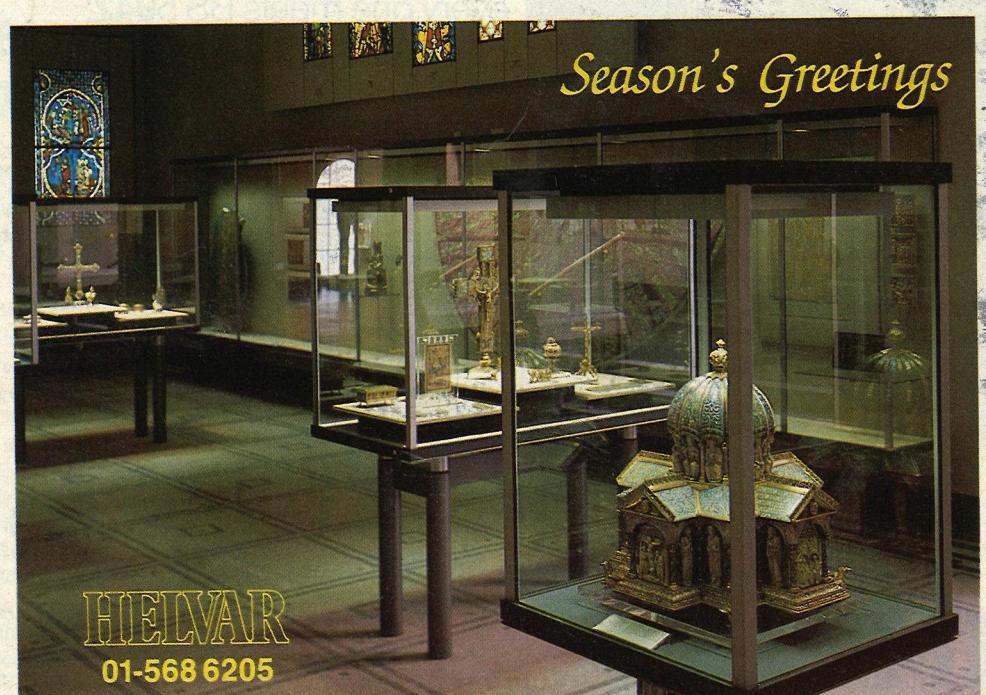
Visual requirements said Professor Begemann, varied from one person to another and called for dynamic and flexible lighting.

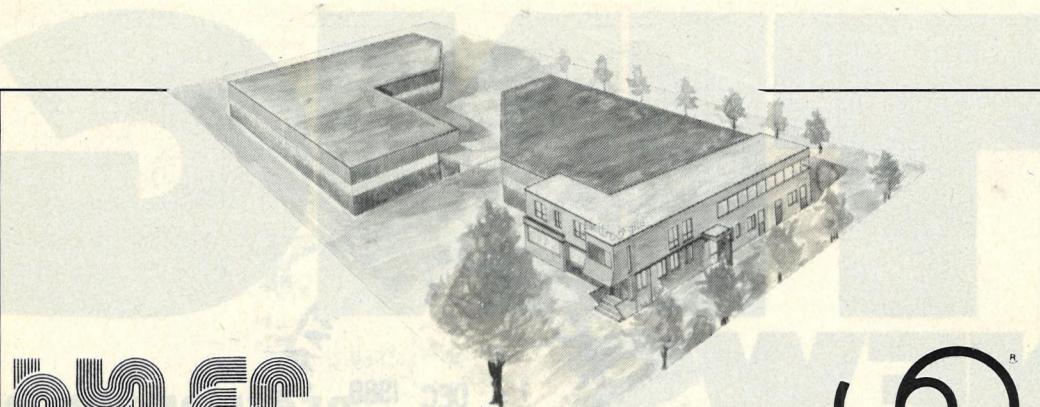
Electronic circuits made it possible to control lamp performance and output, while sophisticated lighting controls brought flexibility and intelligence to an installation.

Looking to the year 2000, he foresaw a universal electronic ballast with an integrated control interface as standard, and luminaires with standard control connector plugs. As a result, lighting standards will have to be re-defined.

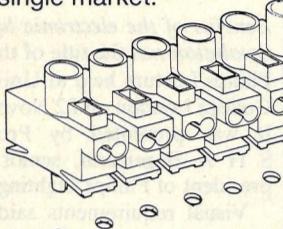
People in brief...

- Robert Walker has been promoted to the board of Ashley and Rock Ltd as marketing director.
- K-S-H Plastics (UK) Ltd has appointed Ken Newick as southern area representative for the company's lighting division.
- John N Wright, managing director of the Electro Lighting Group, has additionally been made a main board director of Electrocomponents plc.
- ECS Energy Conservation Systems Ltd has appointed Mark Atkinson as system sales executive in south west London and the southern home counties.
- Deborah Rowe is the new secretary to the Lighting Division of The Chartered Institution of Building Services Engineers. Ken Butcher has taken over as publications secretary at CIBSE and Peter Scurry is now technical secretary.



**HYLEC****WE'RE ON THE WAY TO 1992**

The recent association between **Hytec Components**, one of Britain's fastest growing specialist component distributors, and **Elettro Gibi S.P.A.** of Italy, already established as one of Europe's leading manufacturers of **connectors and cable accessories**, provides us with the resources and expertise to meet the demands of the single market.



Our proven reputation for quality and reliability at competitive prices will be further supported by our new manufacturing and storage facilities. Our range includes **terminal blocks — screw, pushwire, tab and P/C**. Types for standard to high temperature applications, **cable glands, cord grips and plastic parts for lighting fittings**.

For further details contact:

HYLEC-ELETTRO GIBI (UK) LIMITED

Unit 4, Trinity Centre, Park Farm Industrial Estate, Wellingborough, Northants. NN8 3ZB.
Tel: (0933) 677633 Fax: (0933) 675771 Tlx: 312620 HYLEC G

Reader Service No. 2

IMI Reeves Candleholders outshine all others.

Save valuable assembly time and labour costs by fitting IMI Reeves Candleholders.

Neat, no-nonsense, two-piece construction makes them easy to fit — quickly. Their slim-fitting design gives you wider flexibility of application. As you'd expect from Reeves, every one meets BS 5042: Part 1: 1981.

And so that you know you're using the best, every one carries the Reeves logo.

IMI Reeves Candleholders — for the enlightened manufacturer.

**IMI Reeves Lampholders**

Holdford Road, Witton, Birmingham B6 7ES.

Tel: 021-356 7369 Telex: 335959
IMICOM G. London Office Tel: 01-636 9533

IMIReader Service No. 3
Page 2**DIARY****DECEMBER****6**

In the morning light. Address by new chairman of CIBSE Lighting Division. An evening meeting at the Trinity Maritime Centre, Newcastle upon Tyne, arranged by the North East Region of CIBSE. Details from J Patton, 20 Glebe Manor, Glebe Road, Ballycrone, Hillsborough BT26 6NS. Details from M J Calvert 0642 766266.

7

Lighting modern shopping centres. An evening talk at the School of Architecture, Manchester University, arranged by the North West Region of CIBSE. Details from J H Troughear 061-449 0276.

Electricity generation — what else matters apart from the environment? A one-day conference at Imperial College, London, arranged by the Royal Town Planning Institute. Details from Linda Durtnal 01-323 1582.

8

Lighting for sports centres. An evening meeting at Cleckheaton held by Northern Region of the Institution of Lighting Engineers. Details from J Brewis 0484 22133.

14

Festive decorations. Paper and visit, Leicester. Event arranged by the Midland Region of the ILE. Details from R B Simpson 0602 269711 extn 2243.

Lectures and visit to the Tate Gallery, London, organised jointly by the Lighting Division and Electrical Services Group of CIBSE. Details from CIBSE 01-675 5211.

JANUARY**6**

Industrial lighting seminar and exhibition at UMIST, Manchester, organised by the Lighting Division of CIBSE. Details from member

Closing date for interior design awards

Entries are now being accepted for the 1989 Interior Design International Awards. Outstanding interior design projects completed worldwide between 1 January 1988 and 1 January 1989 are eligible for consideration.

The awards are presented biennially. In 1989 there will be four categories, including the Retail Interiors Award sponsored by Philips Lighting. The other categories are offices, public interiors and leisure interiors.

Philips' aim is to heighten awareness of the increasing scope new lighting technology is offering designers. The retail environment, says Philips, requires particular discipline from the designer to match form and function.

Each category winner will receive a trophy plus £1000. In addition, the best overall winner will receive £10 000.

Closing date for entries is 13 January. Full details are available from the organisers, AGB Exhibitions Ltd, Audit House, Field End Road, Eastcote, Ruislip, Middlesex HA4 9LT (telephone 01-864 4499).

Winning projects will be featured at the Interior Design International exhibition at Earls Court from 14-18 May.

services department CIBSE 01-675 5211. London. Details from the Decorative Lighting Association 058 84658.

9

High frequency lighting — the way forward. An evening meeting at the Drumkeen Hotel, Belfast, arranged by the Northern Ireland Region of CIBSE. Details from Deborah Rowe, CIBSE 01-675 5211.

11

Period lighting. A lecture held by the Midland Region of ILE. Details from R B Simpson 0602 269711 extn 2243.

12-17

Paris International Lighting Exhibition. Information from French Trade Exhibitions 01-225 5566.

15-19

25th Lightshow. Olympia, Olympia, 449 0276.



The

25th LIGHTSHOW

SILVER ANNIVERSARY EXHIBITION

At the
NATIONAL HALL
OLYMPIA
LONDON, U.K.

From Sunday 15th January

to

Thursday 19th January 1989

- ◆ *Featuring all the latest Lighting Designs.*
- ◆ *Decorative Lighting for the Domestic Market.*
- ◆ *Garden and Exterior Lighting.*
- ◆ *Architectural Lighting to Specification*
- ◆ *Lighting Accessories, cables, etc.*
- ◆ *Hotel, Restaurant & Office Lighting.*

Organised by the

Decorative Lighting Association Limited
Brym, Bishops Castle, Shropshire SY9 5LE, UK
Telephone: 058 84658

NEW PRODUCTS



Airfield lights are energy efficient

Two ranges of airfield lights have been introduced by Thorn Lighting.

One is a range of inset airfield lighting fittings with improved optical control.

All the necessary versions of inset runway and taxiway lights are included: uni-directional, bi-directional approach threshold, touchdown zone, centreline and runway edge curves, straight taxiway and stop bars. A low intensity omni-directional type is also offered.

The fittings have an extremely low projection, a mere 12mm, and a smooth profile to minimise the effect on aircraft landing gear.

Each has three components — protective cover, lighting unit and base — and is ruggedly constructed in cast aluminium.

A specially developed, dichroic coated, tungsten halogen reflector lamp is mounted vertically in each lamp unit. Above this, a special

prism arrangement ensures the desired light distribution and a dichroic filter between lamp and prism gives a beam of the required colour.

Significant energy savings are obtained from this optical concept. On taxiways, for example, a 45W unit can replace a conventional 100W fitting and a 75W runway luminaire gives equivalent performance to a traditional 200W version. Furthermore, the typical 1200-hour lamp life at full intensity reduces maintenance.

All Thorn's inset fittings allow the entire lamp unit to be removed for relamping.

In addition, a separate range of 208mm diameter inset taxiway units is offered using 36W dichroic tungsten halogen lamps.

Included are bi-directional fittings for straight runs and curves, and a uni-directional stop-bar luminaire.

Reader Service No. 151

lighter and more compact than their existing metal counterparts.

For example, the new 11W fitting weighs only 2.8kg compared with 5.5kg for a metal unit of the same rating.

The housing gives environmental protection to IP67. The luminaires are available for use on 220V, 240V and 254V at 50/60Hz, and 24V and 110V a.c. or d.c.

Reader Service No. 152

These fluorescent fittings use polyester and polycarbonate, housings and bowls, making them

Hazardous area lighting

A range of Exd luminaires made in West Germany is available in the UK through the Normalec Division of ABB Power Ltd.

These fluorescent fittings use polyester and polycarbonate, housings and bowls, making them

Pre-wired spot element

KP Spot is a pre-wired modular element that has been added to the Kingsprofile display lighting system available from Fumis Ltd.

It is supplied in either 300 or 600mm lengths.

The low voltage spotlight can be adjusted through 359°. It uses either spot or flood distribution lamps that are capped to minimise glare.

Reader Service No. 153

Identifier kit for cables

An identifier kit from the Electrical Products Group of 3M United Kingdom plc makes it possible for one person to identify up to 16 wires at a time in any size or type of cable up to a length of some 1.6km.

This hand-held electronic device is helpful in both installation and maintenance work and is quick and easy to use.

Reader Service No. 158

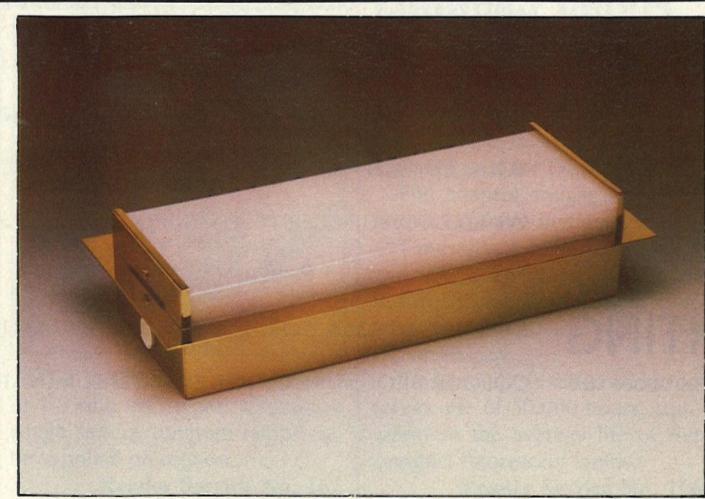
For more information on any of the products listed above, circle the enquiry number on the free reader reply service card.

Brass finish for emergency luminaires

The complete range of emergency lighting fittings by Bradley Lomas (Electrical) Ltd is now available with a brass trim.

While this highly polished brass finish complements any interior decor, it has been designed with Victorian and Edwardian style pubs and restaurants particularly in mind.

Reader Service No. 154



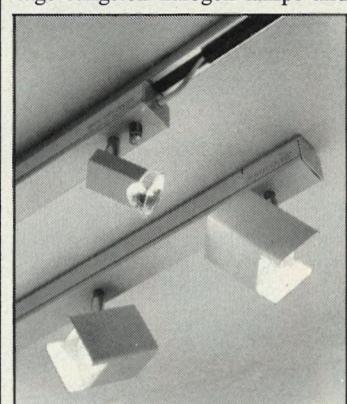
LV spotlight bars

A selection of low voltage spotlight bars has been launched by Transform Lighting Systems Ltd.

Because the bar has an in-built electronic transformer it is installed as a normal mains fitting, which avoids potential problems of cable size and length to transformer.

There are two basic versions, one for ceiling or wall mounting and another for installing onto mains lighting track. The model for lighting track clips on and locks into the track profile.

The spotlights all use low voltage tungsten halogen lamps and



are available in five styles: wings and micro (both illustrated), wedge, mini and maxi. They are adjustable both vertically and horizontally.

There is a choice of bars with either two, three or four spotlights.

Reader Service No. 155

Security lantern with photo cell

Nite Lantern is the latest addition to Applied Security Design's range of exterior, security and courtesy luminaires.

It is a modern, vandal resistant luminaire with either black or white mounting arm, integral photo cell and a choice of three globes: opal, clear or smoke.

The luminaire is designed for both corner and flat wall mounting, uses a 100W GLS lamp and is capable of switching a further



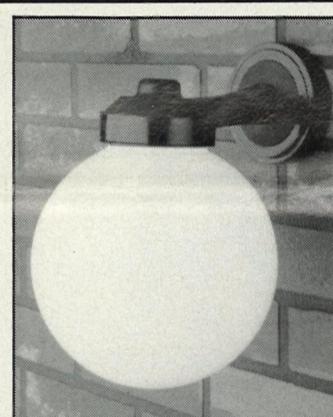
Choice of brass picture lights

A collection of polished brass picture lights from Chelsom has either brass wall-fixing backplates or optional picture-fixing bars. Swivel joints adjust the angle of light.

There are three designs of reflector: a tubular design with arched arms and flush-soldered ends, a cylindrical style with brass cap ends, and a trough-shaped reflector with flush ends and optional garland motif. All have white enamelled interiors.

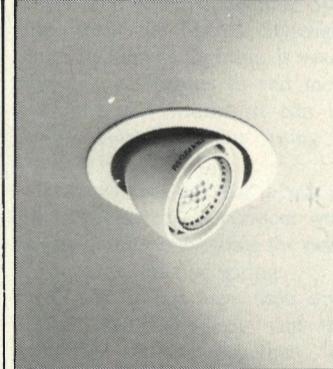
The largest light with optional garland motif can be converted to use a compact fluorescent lamp.

Reader Service No. 156



900W of lighting.

Reader Service No. 157



Recessed spotlight

A recessed adjustable spotlight is the forerunner of a new generation of lighting fittings to be launched by Reggiani.

Ventilation for lowering the surface temperature of the fitting to below 70°C was a critical factor in the luminaire design and is setting a precedent for the company's new ranges of recessed fittings.

The TE3721 fitting can be used as a fully recessed downlight, although the lamp housing can be pulled down and adjusted up to 60° from the vertical.

The fitting takes either a 20W or 50W low voltage tungsten halogen lamp with dichroic reflector and is available in three finishes: gold-plated, white or black.

Reader Service No. 159

COMMENT

Setting a shining example

The second National Lighting Awards continue the same high standards set when the scheme was launched in 1986/87. So, what can be learned from the winning schemes?

The major winners share one obvious feature: they are all refurbishments or modernisation schemes, albeit of buildings of widely differing types and dating from very different architectural periods. Thus, the constraints posed by an existing building rather than the greater flexibility permitted by a new-build solution seem to act as a valuable spur to the imagination of the designer.

Lighting can be seen to be particularly effective where it emphasises the architectural form of the building or enhances detail. In the Royal Museum, Edinburgh, for instance, the cast iron and steel structure of the columns and roof are shown off to good effect, whereas at the Missenden Abbey Management Centre, ornate plaster ceilings are highlighted. A twentieth century example, the Lloyds Building, uses colour to distinguish between different elements of the building, the main building being uplit in blue while the atrium and its barrel vault glow a warm amber shade.

Equally, control systems are increasing in sophistication and importance and are becoming more diverse in nature. The system in use at the commended scheme for the Liverpool Tate Gallery, for example, provides a log of the cumulative time each individual luminaire is in use, thus enabling the gallery to keep a record of exposure to light of works of art. In the Royal Museum, Edinburgh, the control system synchronises the room lighting with the natural light from the glazed roof and with the display lighting used in the galleries.

The shortlisted entries show a high standard of lighting expertise and aesthetic appreciation. In all cases, designers have gone beyond the mere satisfaction of practical needs and technical requirements and have enhanced the interiors — but not at the expense of a prima donna approach which gives undue prominence to lighting.

This, rather than a search for ever greater economy, is the direction in which lighting should be going and the Lighting Industry Federation is to be congratulated on its efforts.

LIGHTING EQUIPMENT NEWS

Editor: Judy Sewell

Associate Editor: Barbara Trigg

Art Editor: Lorna Francis

Midlands Area Manager: John Allen

Northern Area Manager: Robert Ditchfield

Southern Area Manager: Maggie Reddy

Classified Sales: Joanne Barker

Production Manager: Lee Hibbert

Circulation: Kirtee Parmar

Associate Publisher: Brendan O'Connor

Publisher: Nigel Foster

Directors: D G Campbell, Canadian (Chairman), G J F Brigg (Managing Director), N C G Foster, D L Jones, D B Wright.

Published monthly by Maclean Hunter Ltd,

Maclean Hunter House, Chalk Lane, Cockfosters Road, Barnet, Hertfordshire EN4 2UJ.

Telephone: 01-441 6644. Facsimile: 01-441 1796 or 01-441 1361. Telex: 299072 MACHUN G. Midlands, Northern Area Office, Tel: Cannock (05435) 72771.

Origination by Facsimile Graphics Ltd, Coggeshall, Essex.

Printed by E. T. Heron (Print) Ltd, Silver End, Witham, Essex.

Annual subscription £36 (£3.00 per copy including postage) but free to executives in the UK and Ireland concerned with all aspects of commercial, industrial, public and decorative lighting.



ABC
ABC-CIRCULATION
JANUARY-DECEMBER 1986
15,38 copies monthly

A Maclean Hunter Publication



Member - British Business Press

© 1988 ISSN 0024-3418

Popular Art



THORN LIGHTING HAS DEVELOPED A REMARKABLY STYLISH RANGE OF 2D FITTINGS - DESIGNED TO TAKE FULL ADVANTAGE OF THE UNIQUELY SLIM AND COMPACT LINES OF THE 2D LAMP ITSELF.

EVERY INSTALLATION FOR INDUSTRIAL, COMMERCIAL OR DOMESTIC USE CAN NOW BE MATCHED WITH A 2D FITTING THAT ADDS ECONOMY, COST-EFFICIENCY - AND STYLE TOO. THORN LIGHTING'S RANGE OF 2D FITTINGS ARE SUITABLE FOR HOTELS, SHOPS AND OFFICES; HOSPITALS AND SCHOOLS; CAR PARKS, PUBS AND PRECINCTS - EVEN ART GALLERIES.

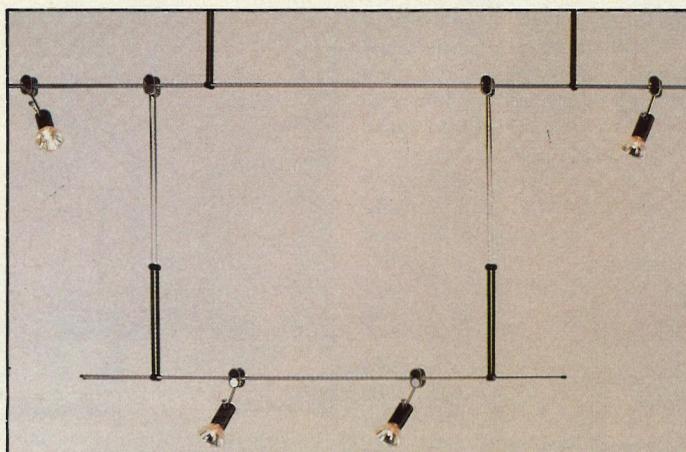
WE HAVE THE EXPERIENCE, THE TECHNOLOGICAL EXPERTISE AND THE SHEER BREADTH OF PRODUCT RANGE TO FULFIL ALL YOUR 2D LIGHTING NEEDS. CALL IT 'STYLISH LIGHTING' IF YOU LIKE. WE LIKE TO THINK OF IT AS SIMPLY 'POPULAR ART'.

CALL OUR PUBLICITY DEPARTMENT ON 01-366 1166 EXTENSION 2366 FOR FURTHER INFORMATION AND A FREE COLOUR BROCHURE OF ALL OUR 2D LUMINAIRES.

THORN LIGHTING

284 Southbury Road, Enfield EN1 1TJ. Tel: 01-366 1166

NEW PRODUCTS



LV lighting system hung on rods

A low voltage system suspended on rods is available through Project Line. It enables lighting installation designers to provide solutions tailored to a variety of interior lighting requirements using a design co-ordinated range.

The 12V system carries the current through the rods, which are suspended horizontally or vertically from either ceiling or wall. There is a range of transformers.

A key element of the system is the clamp-on roll adaptor which attaches luminaires to the rods and makes the electrical connection.

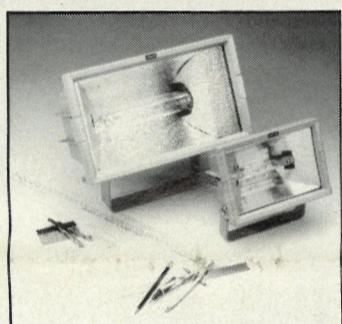
It consists of two tubular components and allows the luminaires to be easily repositioned along the rods.

Tungsten halogen spotlights in two styles can be directionally adjusted at the point where their supporting arm joins the adaptor and also where the spotlight housing joins the arm.

In addition, there is a choice of pendants and matching floor and table lamps.

System HT100 is made by Simon and Schelle of Germany.

Reader Service No. 160



Compact HID floodlights

Andrew Chalmers and Mitchell has introduced a range of small floodlights for use where size must be kept to a minimum, for instance, for architectural floodlighting, sign lighting, and hotel and restaurant fascias.

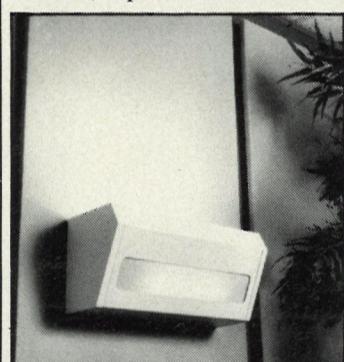
The smallest model is only 152mm high and accommodates a 70W metal halide, 70W high pressure sodium or 80W mercury lamp.

The larger unit is 228mm high and uses high pressure sodium lamps up to 250W.

Made from aluminium alloy, the Compact range is lightweight, highly resistant to corrosion and weatherproof to IP 6S standard.

Reader Service No. 163

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



8W fluorescent lamp behind the front panel to ensure sufficient illumination during the metal halide lamp's warm-up period. This lamp extinguishes automatically when the main lamp reaches full intensity.

The 8W fluorescent lamp can also be connected to integral emergency lighting equipment.

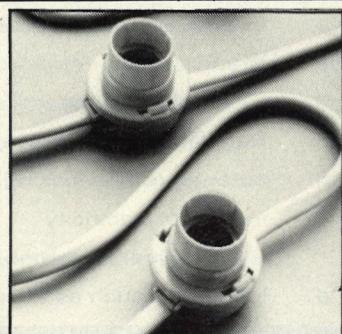
Future developments from Existalite will include matching floor-standing versions.

Reader Service No. 161

Festoon cable for lighting

Crompton Cables has introduced a range of maintenance-free, weatherproof festoon lighting cable for temporary service on building sites, in tunnels and for scaffold lighting.

Coloured yellow for 110V site supplies, the Crompton pvc insulated, arctic grade flexible cable is supplied in 100m lengths and incorporates yellow Woodside festoon lampholders, spaced at either 3m or 5m intervals, as required.



The lampholders are available in ES and BC types. Crompton rough service tungsten lamps can be supplied on request.

Reader Service No. 162

Downlights are relamped from below

Toplite, a range of fixed and directional, recessed downlights from the Lighting Workshop is designed to be both attractive and practical.

Made of aluminium, the luminaires are all-in-one units which are easy to install. They are relamped and directionally adjusted from below.

Toplite fittings use MR16 low



voltage tungsten halogen dichroic lamps rated at 20W or 50W.

Ceiling plates are either round or square and come in white, black, gold or chromium finishes.

Reader Service No. 164

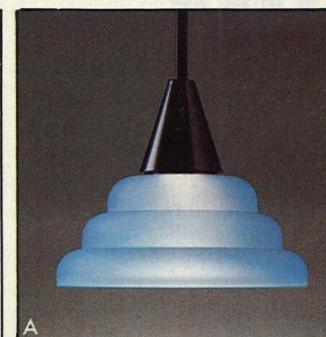
Choice of three torches

Micromark has three new torches. The Super Power Beam three-cell torch uses a halogen lamp which produces an exceptionally bright light. It is waterproof (tested to a depth of 10m) and has a robust black plastic housing which is ribbed for a good grip. Power is from three HP2 (MN1300) D-size batteries.

Micromark Flashlight is a simple, sturdy torch with a push button for flash operation. Finished in black, it is powered by three HP11 (MN1400) C-size batteries.

The miniature pocket torch is easily carried in jacket pocket or handbag. Housed in a black plastic case, it has a sliding on/off switch and two HP7 (MN1500) AA-size batteries are used.

Reader Service No. 165



Low voltage glass pendants

Nelly is a range of low voltage pendants in satin finished glass in different colours.

There are two ceiling roses to choose from, one incorporates a transformer. The pendants use 12V 50W dichroic lamps.

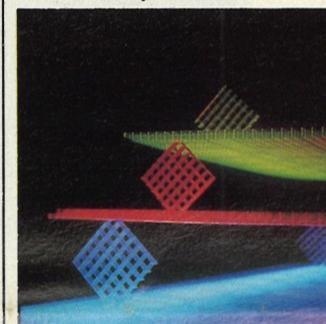
Made by Leucos, Italy, and available in the UK through Forma Lighting, the range includes wall and floor lights.

Reader Service No. 167

Fluorescent louvres

Egg crate louvres made from fluorescent acrylic have been introduced by K-S-H Plastics UK Ltd.

Particularly suitable for use in



leisure areas such as discos, nightclubs and bars, these louvres are available in red, blue or yellow. Panel sizes are 600 x 1200mm.

Reader Service No. 168

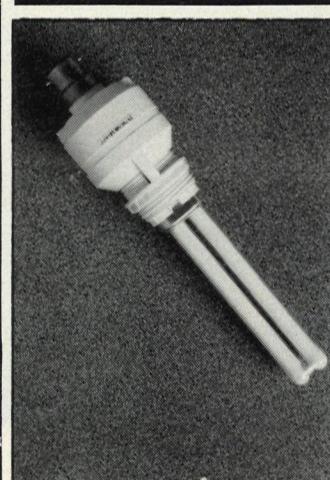
Lighting units clip together

The Fitted Kitchen Lighting System, from the Mazda Stylelight range by Omega Lighting, is available in two lengths to suit most standard unit widths. It can be linked round corners using a connector set.

Each lighting unit has a built-in plug and socket to connect with the next unit, so avoiding the need for separate manual wiring.

As the fittings have their own rocker switches they can be switched either together or independently.

The system is displayed in blister packaging and each pack



Adaptor for PL compact lamps

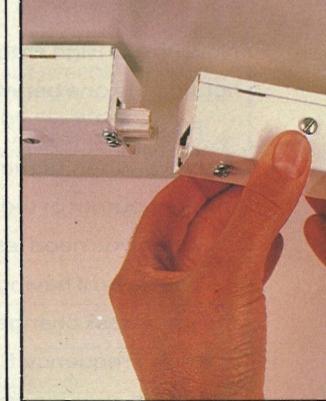
Tungsram Lighting has launched Tungsradapt, an adaptor which enables PL type compact fluorescent lamps to be used in lampholders designed for GLS lamps.

The adaptor weighs 380g and measures 60mm in diameter.

Tungsradapt FD is for 5, 7, 9 and 11W lamps; the FDO version is for 10 and 13W lamps. Both adaptors are available with either BC or ES caps.

Tungsradapt is stated to have a service life of 50,000 hours, equivalent to the average life of five compact fluorescent lamps.

Reader Service No. 166



comes complete with lamp and fitting instructions to encourage "off the shelf" selling.

Trade price of the 305mm version is £19.95 and of the 533mm model £20.45.

Reader Service No. 169

LIF LINE

New government focus on private funding

A number of statements made at the October Conservative Party Conference could augur well for the lighting industry. They were made by Paul Channon, Secretary of State for Transport. No, he hasn't agreed to light all motorways, but he has declared his intention on the one hand to enable privately funded extensions to Britain's road network, and on the other to give developers a better deal by cutting red tape.

Channon's broad hint at Brighton that he is to seek relaxation of treasury rules would, if he is successful, enable and encourage construction companies and banks to put up private infrastructure projects. The Euro-Tunnel and Dartford Bridge have provided ample evidence of what can be achieved, and there is evidently now keen interest in the scope which changes in the rules might allow. There is a large amount of money in the banking sector, and with institutions no longer putting it into gilts market, all that is needed is a green light from the Treasury and detailed guidelines on how to put proposals together.

So the scene is set, and several projects are already lining up:

1. A 60 mile London motorway from Chiswick to Docklands, laid in a pipe on the bed of the Thames, costing £4 billion.
2. A second Severn crossing with new motorway links to the M4 and M5, costing £2m.
3. A new motorway to relieve the M6 in Lancashire.

All, one imagines, with a lighting content and most probably leading to further development, which in turn will lead to greater demand for lighting.

Channon's right-hand man, Michael Portillo, says the list of suitable projects will be drawn up in the next few months with the emphasis slightly to shift from new river crossings to existing bottlenecks, and grandiose schemes. He is, he says, "Talking about areas where it is not the planning gain that makes it worthwhile, but the relief of congestion. It is in places like this that people would be willing to pay avoid the congestion."

Some of the congestion on motorways is caused by the clearing away of debris during the day, a highly dangerous practice. If all motorways were lit, this could be done at night when the traffic flows ease considerably to lessen the day-time congestion.

This one statement by Portillo offers the industry a ray of hope that the Department of Transport may be thinking more imaginatively than it has ever done. If it is willing to allow the private sector to build new roads it may be that now it will give favourable consideration to leased lighting for the whole motorway network, more of which must surely be lit as a result of the Department's subsequent announcement that it has increased its estimated cost of a fatal accident to £500,000. This re-evaluation must add greater weight to the clamour from all sides to light unlit sections of motorways.

The cutting of red tape could open the way to a number of additional developments currently on the shelf, for example, a new 1800 acre village north of London including office and housing developments and a new five mile dual carriageway relief road costing up to £10m, and many more thereafter, all having a lighting element.

National Lighting Award winners

Refurbishment schemes carried off the major awards — only four of the shortlisted schemes were new-build projects. *LEN* reports.

The results of the second National Lighting Awards were announced on 18 November 1988. The National Lighting Awards, organised by the Lighting Industry Federation, commend excellence and innovation in the design of lighting for all types of installation except for road and home illumination. The four key sections are industrial, leisure, commercial and civic lighting schemes.

Criteria used to assess the entries include functional considerations such as the quality of the design and its compliance with accepted standards and good lighting practice, the originality of the scheme and the lighting techniques adopted coupled with the choice of appropriate equipment.

Financial factors including cost effectiveness and the appropriate use of control systems are also taken into account. The human and subjective aspects of the scheme are evaluated including the way the installation has been accepted by both users of the building and the staff employed in it, and the extent to which staff satisfaction with the scheme has been reflected in increased productivity.

Finally, the aesthetic element is taken into account. The effect of colour and atmosphere and the sympathetic treatment of the architectural environment are all reflected in the assessment of the schemes.

The Royal Museum of Scotland in Edinburgh, winner of the leisure section, was opened in 1866 and is Scotland's largest Grade I listed building. A leaking roof and the presence of dry rot necessitated a major renovation programme, during which the opportunity was taken to install a new lighting scheme based on the latest technology.

The Royal Museum embraces column-mounted up and down lighting, backed by a photocell control system synchronised to natural daylight from the large glass roof, and direct and indirect lighting on the balconies.

Double winner

Earlier this year the same lighting scheme won an EMILAS award for energy efficient lighting and was described in detail on page 9 of the May issue of *Lighting Equipment News*.

The enormous success of this lighting scheme is largely attribut-

able to two factors — firstly that the lighting scheme had to be a unique and vital element of the interior design and to respect the nature of the listed building. Secondly, the scheme also had to serve the purpose for which it was designed: to provide effective lighting for the display of the museum's exhibits. In both these respects, the Royal Museum succeeds admirably.

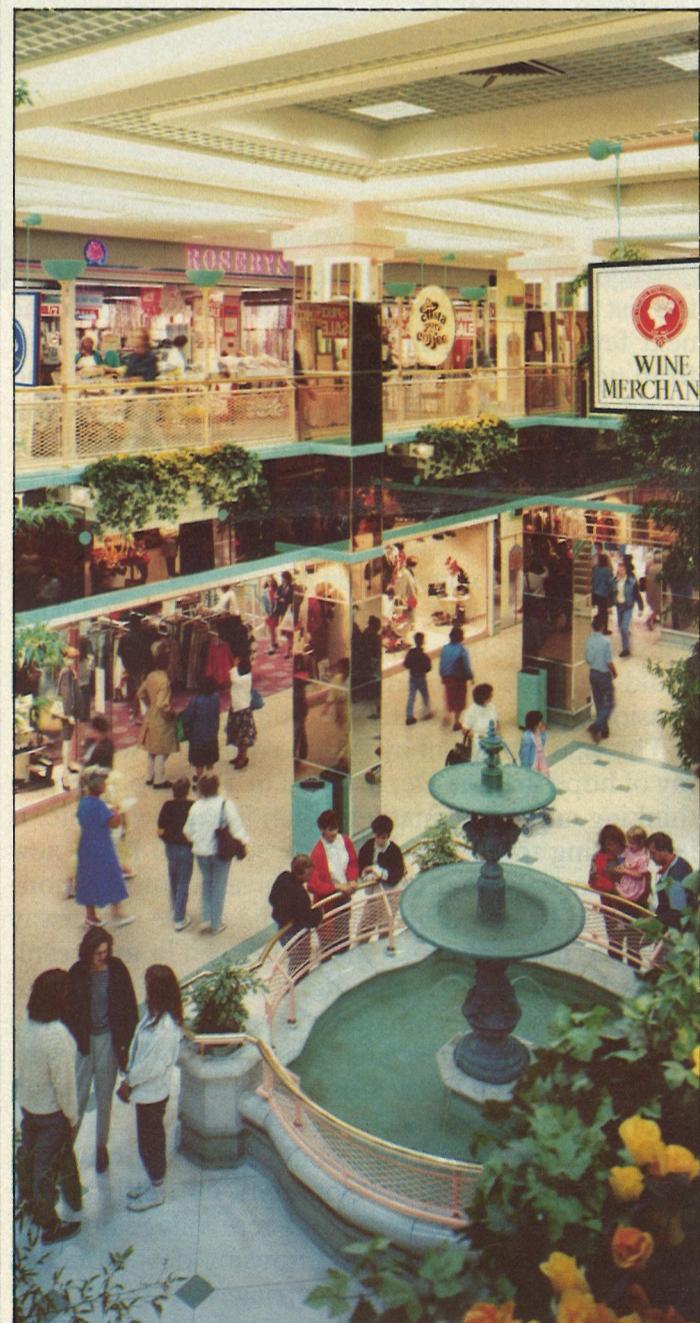
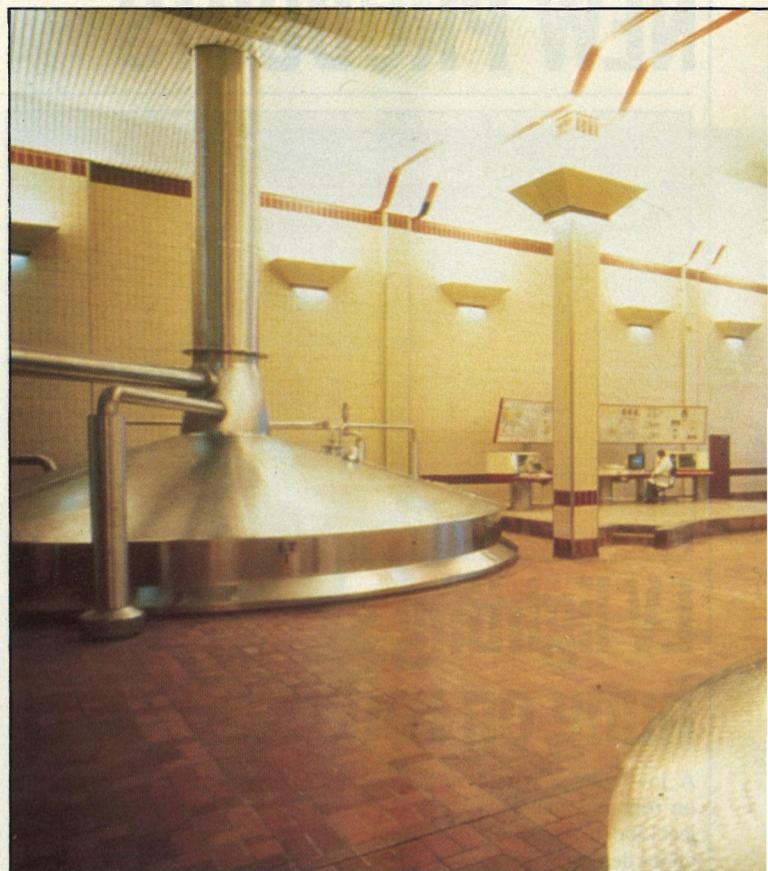
Uplighting makes a spacious interior of the Courage brew hall.

Architects, the Law and Dunbar-Nasmith Partnership, brought a detailed knowledge of the building to bear on the refurbishment scheme and lighting expertise was provided by Hector Fernandez, Head of Design of the National Museums of Scotland, and Derek Wilkinson of Thorn Lighting. Equipment was supplied by Thorn.

The Victoria Centre, Nottingham, winner of the commercial lighting category, was originally designed in 1972 as one of the first two-level enclosed shopping centres in Britain.

Great expectations

When the development was first opened it was the height of fashion. Since then styles and, more particularly, public expectations of standards to be provided in shopping centres, have changed considerably and the owners, Capital and Counties, decided to refurbish the centre to maintain its position as prime shopping pitch in Nottingham into the 1990s.



Improved lighting makes for a better shopping environment at the Victoria Centre, Nottingham.



NEW PHILIPS HIGH FR

VDU operator, and still less for the cleaners.

The light output of each luminaire can be adjusted individually, or by whole areas, to suit different tasks, or to add impact.

Install a light sensor, and new Philips High Frequency Regulation will even vary the light output up and down automatically — making optimum use of natural daylight instead of electricity.

Combine new High Frequency Regulation with luminaires such as Philips TCS 660 on the right of our

New Philips High Frequency Regulation gives fluorescent lighting the one benefit it's always lacked.

Flexibility.

Now, when higher light levels are needed, just raise the light output of the lamps.

When you need less, they'll give you less.

The days of having to change the lighting layout when the visual task changes, are over.

High Frequency Regulation is so flexible it can be 'tuned' to provide more light for a designer, less for a

Philips Lighting





The original lighting gave a low level of illumination in the malls, designed to concentrate the eye on the merchandise in the brighter shop windows. There was no differentiation of areas in the long malls and the internal cladding was in a uniform sombre shade. The heavy column line, lift shafts and escalators had no treatment to conceal their weight and intrusive qualities. The ceilings, typical of their time, were low and dark.

The brief for the new lighting included achieving higher lighting levels and enhancing the theatricality of the scheme, which was based on a 1930s Egyptian cinema style. Lighting also had to be energy efficient with low maintenance levels to fit in with the building energy management system which encompassed every aspect of the building's control and maintenance.

The approach centres on a new building management system, incorporating programmable lighting to match specific tasks and varying lighting levels appropriate to the time of day. Photocells automatically control lighting levels, so that the desired atmosphere can be

maintained at all times.

Key features of the new scheme are the use of white SON for display lighting and high frequency fluorescent lighting elsewhere. The centre is now illuminated to a much higher standard than before but the installation is considerably more economical and has resulted in energy savings approaching 50%.

The refurbishment project was led by architects, Michael Maskell Associates, and lighting designers were Roberts and Partners, Oxford. Equipment was supplied by Philips Lighting and LB Lighting.

Safer shopping

The finished effect has assisted policing and security at the centre, renewing interest in the mall as a safe and interesting place to shop and making it, once again, Nottingham's foremost shopping complex.

The ability of lighting to highlight the key aspects of an historic building is powerfully illustrated at the Missenden Abbey Management Centre in Bucks, a grade 1 listed building which is in great

demand for residential courses.

A classical lighting scheme was called for, to feature decorative plasterwork and to complement the ceilings, hallways and library. The restraint and style exercised by the interior designers produced a scheme entirely in keeping with its surroundings.

Architects and lighting designers for this scheme were Buckinghamshire County Council's Architects' Department. Concord Lighting and Illumina Designs supplied the lighting equipment.

The industrial section was won by Courage Ltd for the lighting of their brew hall in Bristol. The brewery has been the subject of a £16 million modernisation programme which makes it one of the most advanced breweries in Europe and the lighting solution had to satisfy both the functional requirements of a computer controlled brewing operation and the need to create an almost theatrical atmosphere for the many visitors to the building.

The brewery houses an advanced computer console, and operation of the four VDU screens demands reflection and glare-free



The main hall of the Royal Museum of Scotland.

lighting. As a consequence, an indirect lighting system using wall and column-mounted uplights with asymmetric reflectors was chosen. Uplighting has the added attraction giving an impression of space and light which is appreciated by staff and visitors alike.

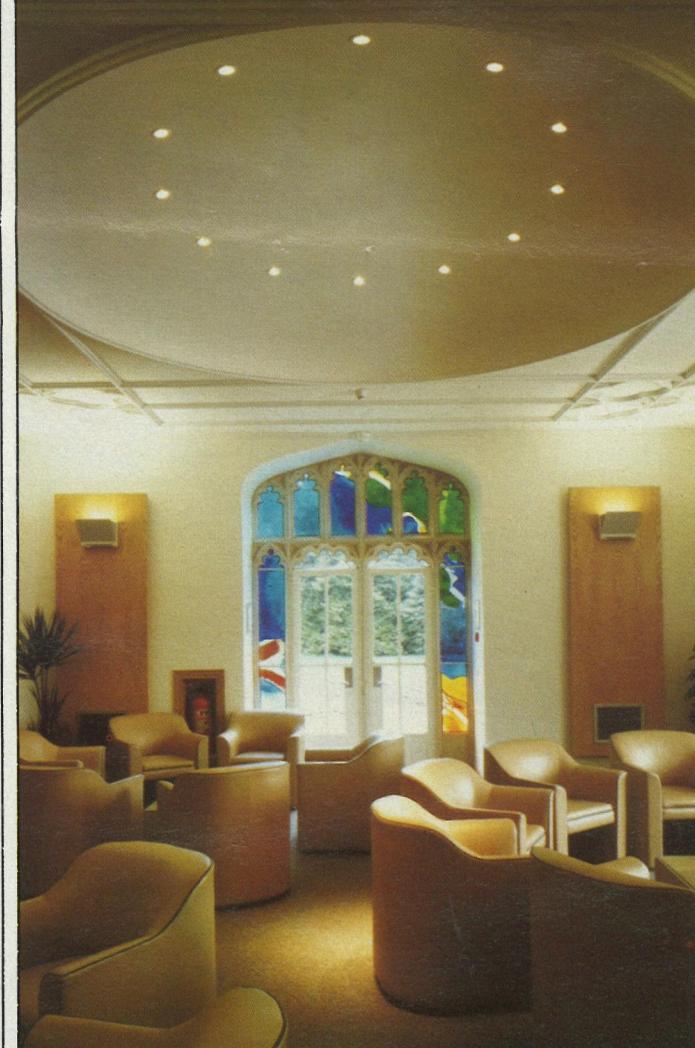
Special effect lighting is provided by specially adapted 500W tungsten halogen spotlights recessed into the sloping sections of the ceiling. The luminaires have red filters which enhance the colour and give an attractive sparkle to the coppers. These fittings can be individually dimmed during guided tours as well as normal operating hours.

The uplights use 400W deluxe high pressure sodium lamps which were chosen for their ideal colour rendering qualities after samples of the burgundy and ivory wall tiles had been tested under various light sources. Uplighting also emphasises the unusual ceiling structure. The uplights are concealed behind specially designed canopies, fitted with fluorescent tubes which produce a halo around the base of the luminaire and create an unusual floating effect. These lamps also provide standby

lighting during the run-up period for the SONDL lamps and emergency lighting.

Lighting designer for this project was Peter Date of Courage, and lighting equipment was supplied by Thorn Lighting.

This is the first time that modern lighting techniques have been used in combination and adapted to meet the very specialised requirements of a brew hall.



Carefully placed lighting picks out decorative plasterwork at the Missenden Abbey Management Centre.

...AND ADJUST YOUR
LIGHT LEVELS.



EQUENCY REGULATION

picture, and you not only get the light levels you want.

You get the light precisely where you want it.

These luminaires can be ceiling mounted, or suspended to mere feet above the working plane.

They'll lead the eye directly to displays, highlight work areas, or invite visitors onto walkways.

No other luminaire system allows you to make more of fluorescent lighting.

But then, never before has fluorescent lighting been so flexible.

To: Philips Lighting, Marketing Services, FREEPOST, City House, 420-430 London Road, Croydon, CR9 9ET. Tel: Customer Services Technical Dept., (01) 689 2166. Ext. 8008.

Please send me the full facts about new Philips High Frequency Regulation luminaires.

Name: _____

Position: _____

Company: _____

Address: _____

Postcode: _____

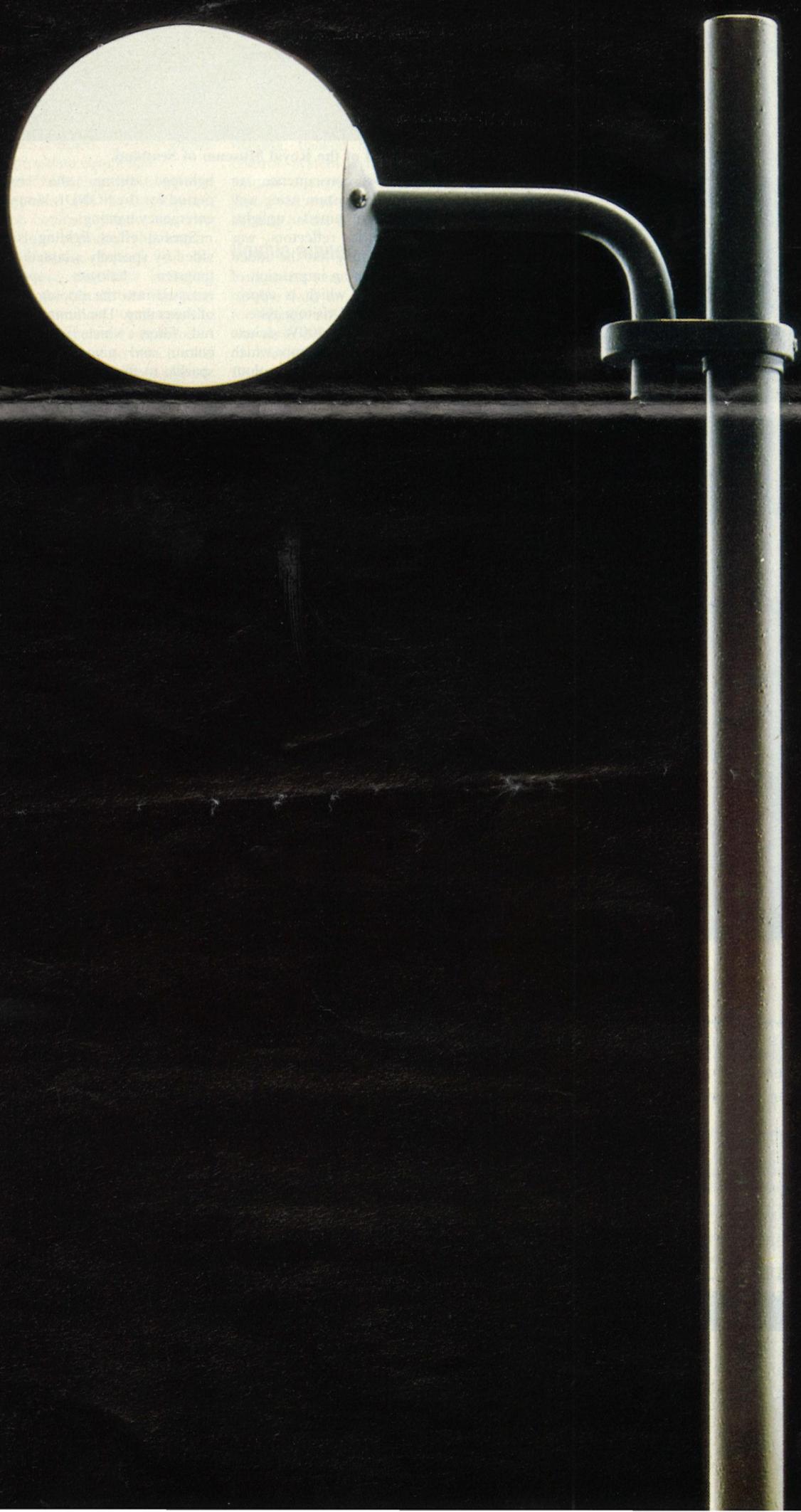
LNA 1188

PL 4113

PHILIPS

Reader Service No. 5

Since 1968 people have been taking to the streets to try and change the system.



The first demo took place exactly 20 years ago, in the old part of Pavia, northern Italy. It was during the XIV Triennale di Milano festival that public opinion was made aware of the need for a new public lighting system. That made the most of important inner-urban areas.

Today, to combat certain shady doings in some parts of the city, iGuzzini have created Public. An out-

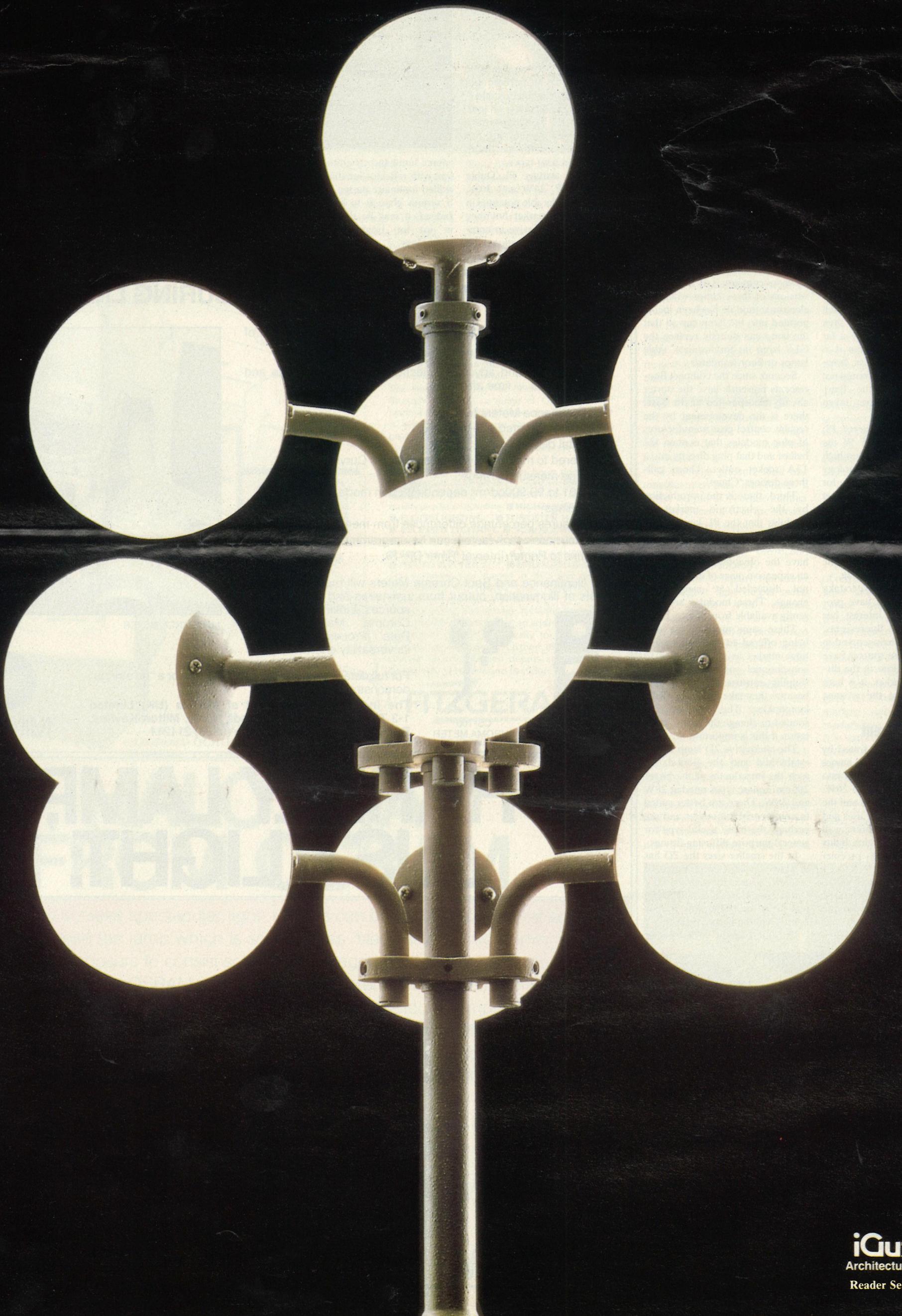
door illumination system for pedestrian and mixed-use zones: crossings, streets, parks and squares.

Public is a new way of managing urban design thanks to poles that allow the mounting of single, or bunches of lamps.

The light sources are fitted with adjustable, optical appliances. And their asymmetrical shades allow the light to be shone in any direction re-

quired. The materials, production technology and dimensions of Public make it all-weather resistant and vandal-proof.

So, if you would like to see some light shed on certain aspects of urban living, write to:
Forma Lighting Ltd, Units 310-311,
Business Design Centre,
52 Upper Street, London N1 OQH.
Tel. 01-2886025. Telex: 8812473.



iGuzzini
Architectural Lighting
Reader Service No. 7

Lighting the way ahead

Lighting techniques and luminaire design are intimately linked to advances in lamp technology. Brian Morgan reviews recent developments in light sources.

Progress in lighting and innovation in luminaire design is very much dependent upon lamp development and the rate at which those developments take place. The past two years have seen quite rapid developments with the emphasis on miniaturisation.

Indeed Robin Aldworth pointed the way ahead at the National Lighting Conference at Cambridge in April when he predicted that by 1990 the process of miniaturisation of the 2D and PL lamps would reduce the size to that of a 50 pence piece!

Of course we will never reach that utopia, but if we did then source brightness would be a far more serious problem than it is today. Source brightness is, however, something that we should not forget in reviewing the lamp developments that have taken place.

In the case of the larger PL lamps at 18, 24 and 35 W the source brightness is really too high for current luminaire technology and there is now perhaps time for the luminaire manufacturers to set limits to source brightness to match the levels of technology in order that the introduction of new lamp types does not represent a step backward in the quest for the better lit interior environment.

For the moment we have to take what the lamp makers have provided. Most of the interest has been in compact fluorescents, miniature tungsten halogen and in HID and, since these sources have their main applications in the display and effect market, it is here that they will have the greatest impact.

Compact fluorescent

The 'tubular' types illustrated by the PL/Dulux/Lynx brand names have been further developed into 'cluster' types from 10W to 26W. Commercially these lamps and the original types have many uses and they are seen in downlighters, wall mounted fittings, task lights, lights for inspection and in precinct lighting.

In the domestic market where these lamps were clearly intended to be direct replacements for the domestic GLS lamp there has not been much success due,

presumably, to the expense and the inconvenience of providing control gear.

The difference between the two markets is one of cost. Unless the cost of electricity dramatically changes from today's prices the GLS lamp is unlikely to disappear from the domestic scene, since the high initial and replacement cost of the compact fluorescents will militate against their use.

However, three approaches have been developed which may conceivably change the situation.

The first is the introduction by the lamp companies of 'electronic' versions of these lamps where an electronic module has been incorporated into the lamp cap so that the lamp can directly replace the GLS lamp in, for instance, table lamps or floor standards.

Second, since the compact fluorescents presently have the starter already incorporated in the base, there is the development by the regular control gear manufacturers of plug modules that contain the ballast and that plug directly into a 13A socket outlet. Thorn calls these devices 'Chugs'.

Third, there is the introduction by the electronic market of modules that the PL lamps plug directly into, the module itself fitting into the lampholder. These have the obvious advantage that an expensive piece of electronics is not discarded at every lamp change. These modules are currently available from 5W to 13W.

These same modules are also being offered to the lighting fittings market as an alternative to conventional control gear. They simplify construction and wiring because they take the place of the lampholder. The unit can be rotated to change the lamp orientation if this is important.

The alternative 2D lamp is well established and the period has seen the introduction of the larger 205mm square types rated at 28W and 38W. These are better suited to commercial luminaires and are perhaps the more useful type for general purpose diffusing fittings.

In the smaller sizes the 2D has become available in a range of colours as have the original PL/Dulux lamps. Both should find a ready use in restaurants, public houses and the leisure market.

PL/Dulux lamps in the smaller

wattages have become available without a starter in the base and this makes them usable for emergency lighting and for use on low-voltage inverters. These types have a four pin base so they are not interchangeable with the more usual two pin base types.

The larger wattage PL/Dulux lamps, at 18W, 24W and 36W, have very considerable potential in the commercial market but they are still rather expensive in comparison with the conventional T8 tubes. However, the very high

source luminance is quite a problem with reflector luminaires, and skilled luminaire design is needed if serious glare is to be avoided. Indeed, it may be that the lamp is just too bright for current technology.

Strangely, the European lamp

makers who first introduced these lamps restricted the length so that the lamp is practically unusable in the normal UK 600mm ceiling module. The matter was raised with the manufacturers at the outset but to date they have not responded. One can only suppose

that they thought they could influence the market so that we in the UK would drop our 600mm module and go to the 500mm overnight!

The alternative European 1250mm module has not found much favour either, in spite of the advantage for the UK luminaire manufacturers because it avoids the use of end boxes on recessed fixtures and allows recessed and surface types to have the same reflector attachment.

In recent times the 1500mm module has become more popular and this allows the use of a 500mm modular luminaire using two or three 36W PL lamps. Maybe this is the direction in which the market will eventually go.

Meanwhile, Thorn has tackled the 600mm module problem and have introduced a 40W 2L lamp. It runs from a new electronic ballast and is really suited to new luminaires. Perhaps this lamp will motivate the Europeans into action.

Low-voltage tungsten halogen is still an area of tremendous activity.



MINOLTA METERS MAKE MEASURING LIGHT WORK!

In the factory, office or laboratory, Minolta Meters made light of measuring!

Superb design and advanced electronics ensure accurate and reliable results — time after time.

Our Luminance Meters feature:

- Battery operated - very portable
- Digital display
- Filtered to match CIE Relative Photopic Curve
- Large measuring range: 0.001 to 99,900cd/m² depending upon mode, also Ft-L readings
- Measures percentage differences from memorised value
- Colour correction factors can be programmed in
- Links to Printer/Interval Timer DP-10

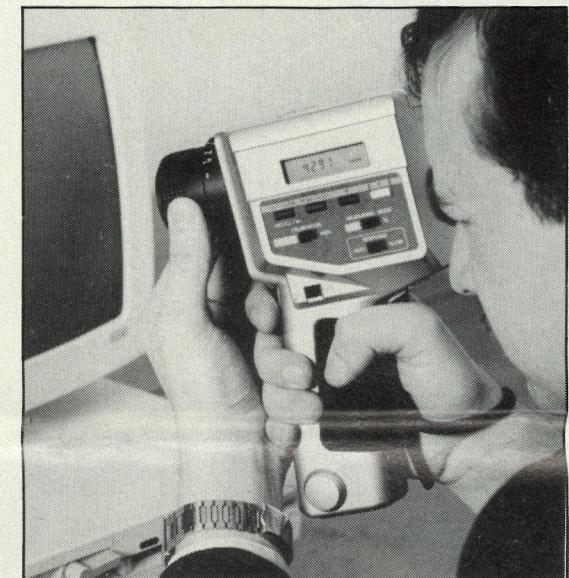
Our Illuminance and Spot Chroma Meters will measure general levels of illumination, output from luminaires and coloured light sources. Linking the CS-100 Chroma Meter to our Data Processor expands its versatility enormously.

For full details of all Minolta Light Meters, or a "no strings" demonstration contact:

The Industrial Department at Minolta (UK) Limited
1-3 Tanners Drive, Blakelands North, Milton Keynes,
Bucks MK14 5BU. Telephone: (0908) 211211



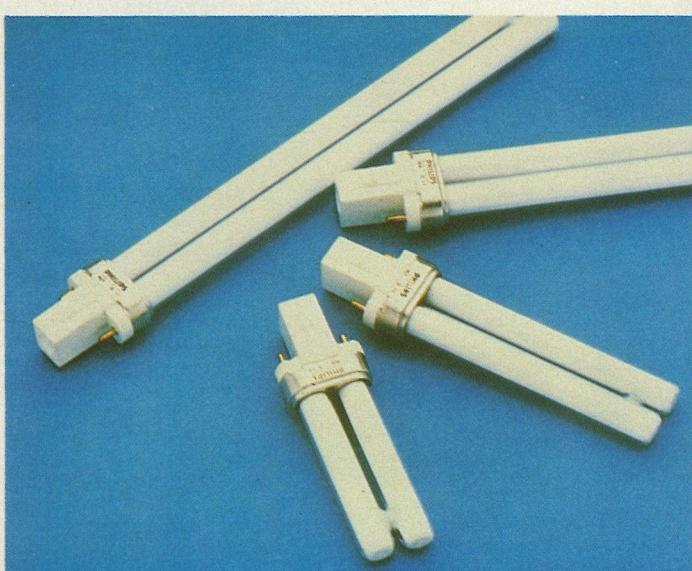
MINOLTA



LUMINANCE METER



HARDLY LAMP, JUST LIGHT:



Part of Philips' PL range of compact fluorescent lamps.



01-441 6644

CLASSIFIED ADVERTISEMENTS

01-441 6644

LEE Environmental
Lighting

SALES ENGINEERS

Low Voltage/Ambient Light Source Luminaires

Lee Colortran International, world leaders in film and TV professional luminaires, seek to increase substantially their already enviable reputation for display and ambient lighting, through the auspices of Lee Environmental Lighting.

We seek to appoint Sales Engineers with a lighting engineering background, capable of preparing lighting schemes and most importantly having the ability to promote links between ourselves and our extensive network of distributors.

As you would expect from a major international company, high income, fringe benefits and excellent career development will be no barrier to the successful applicant.

Apply in writing please, with full c.v. to:
Mr Martin Duff, Director, Lee Environmental Lighting,
Manchester Road, Kearsley, Bolton BL4 8RL.



A Lee Panavision International Company

TECHNICAL/MARKET DEVELOPMENT ENGINEER

We are a major international organisation with diverse interests in virtually every industrial and consumer market. We wish to recruit a suitably qualified individual to develop the market for an exciting new product which has potential throughout the lighting industry.

The post constitutes an outstanding opportunity to join a highly professional team with a major focus on growth.

Applicants should have a thorough understanding of what is required to develop a new product to business success, and have experience of selling and/or applications engineering.

A highly competitive salary is supported by first-class benefits and conditions of service.

To apply, please write with full personal, career and salary details to: Paul Davies, Human Resource Manager, T.G.S. & S.S. Division, 3M United Kingdom PLC, 3M House, PO Box 1, Bracknell, Berkshire RG12 1JU.

3M is a trademark



AGENTS REQUIRED

To sell a **NEW** energy saving product for fluorescent lighting. Applicants should have a lighting background and used to selling to the commercial, industrial and specifier markets. Areas available:

S.W., E. & W. Midlands, N.E. and Scotland.

High earning potential already proven by existing agents.
Write to:

PO Box No. 1455
Lighting Equipment News,
Maclean Hunter House,
Chalk Lane,
Cockfosters Road,
Barnet, Herts
EN4 0BU

lumitron lighting

We have vacancies for two Sales Representatives to cover London and the Home Counties selling our range of Commercial lighting.

Applicants should have experience in lighting or Building Services and be self motivated with a professional approach.

An attractive salary is offered coupled with a Bonus Scheme and Company car.

Apply in writing

Area Sales Manager

Lumitron Limited, Chandos Road, London NW10 6PA

INDUSTRIAL LIGHTING
YORKSHIRE — HUMBERSIDE — MANCHESTER

TECHNICAL SALES ENGINEER

(Excellent Package)

Our client, one of the world's top Lighting Companies owe their success to a unique technical and marketing strategy, supported by the largest manufacturing investment the UK lighting industry has seen for many years.

Continued expansion has created vacancies for additional Sales Engineers in the above areas to establish our clients specifications within the Contractor/Consultant and Architect markets. Applicants will ideally have a formal engineering qualification although those unqualified with substantial field experience will be considered.

The successful applicant should be able to demonstrate a forward career progression to date and be desirous of further developing their career in the Company.

An excellent remuneration package including salary of around £13,000 plus substantial bonus, car and benefits will be negotiated to attract the strongest of applicant.

Applications in strict confidence to **John Gibbins** quoting Ref: 288 at the address below with initial enquiries invited on (0532) 422355.



Beilby Management Services
2nd Floor, Airedale House,
Albion Street, Leeds LS1 5AW.
Fax (0532) 422493. Tel. (0532) 422355

SERVICE ENGINEER

Courtney Pope Lighting Limited, a leading manufacturer of standard and special luminaires, have a vacancy for a Service Engineer, reporting to the Technical Director.

The successful applicant will be aged between 30 and 45 with a thorough knowledge of lighting equipment, control gears, circuits and electrical installations and be self-motivating, responsible and energetic.

The duties are evenly split between office and field activities and involve contact with major customers and electrical contractors in addition to liaison with company personnel.

Salary negotiable, Company car, expenses, pension scheme and 5 weeks annual holiday.

For further information please contact:

Mrs J E Burzio Personnel Manager,
Courtney Pope Lighting Ltd,
Amhurst Park Works, Tottenham, London N15 6RB
Telephone Number 01-800 1270

DISPLAY LIGHTING SALES CONSULTANT

Required by The Wholesale Fittings plc.

Based in the South East and reporting to the Lighting Manager at our Dagenham Head Office, this challenging position offers a varied job content.

You will maintain contact with our existing major Lighting accounts and help to develop new business within the fast-moving user and contractor areas.

You will already be involved in sales of Commercial Lighting Products and have the knowledge and imagination necessary to succeed in this exciting field.

We offer an attractive salary, Company Car, non-contributory pension and life assurance schemes, profit sharing scheme and the best back-up in the Industry.

Write, giving all relevant details, in full confidence to:

Ros Bradford
The Wholesale Fittings plc
313-333 Rainham Road South, Dagenham,
Essex RM10 8SX

SITUATION WANTED

Senior Executive with many years experience with a leading European Lighting manufacturer seeks a new challenge with a progressive manufacturer of Lighting Products. Unrivalled knowledge of all aspects of the Lighting Market and a successful career to date.

Please rely to **Box No 1456, Lighting Equipment News,**
Maclean Hunter House, Chalk Lane,
Cockfosters Road, Barnet, Herts EN4 0BU.

SALES AGENTS

required for all areas to promote a popular and competitively priced range of lampholders and electrical accessories. Those servicing the decorative lighting manufacturers and/or the electrical wholesale sector invited to apply.

L & E Components Ltd,
145 Oakwood Road,
Spark Hill,
Birmingham B11 4EU
Tel: (021) 778 5264

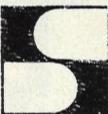
SALES DIRECTOR

Have you the commercial and technical experience to develop and expand a new Lighting Division?

Then we offer you:
Salary of £25 — 30K.
Full Company Support.
Prestige Company Car.
Share Option Scheme.
Interested? — then watch next month's issue for further details.
That's if you can't resist the temptation to ring, **LITETRONICS (UK) LTD.**, (0924) 401004 and ask for Mr. D. Marney.

**HAVE YOU
FOUND
RONALD DURY?**

**FAX YOUR
AD
01-441 1361**



**Institute of Environmental Engineering
CENTRE FOR CONTINUING PROFESSIONAL EDUCATION**

Another in the series of Lighting short courses is being offered by the Centre on Monday 20th and Tuesday 21st February 1989.

Design of optical systems for luminaires.

The two day course will cover basic principles of light control, methods of reflector and refractor design and photometry of luminaires. Course fee £195 including refreshments.

A course certificate will be issued on completion.

*For further information and registration please contact:
The Centre, Room N201A, IoEE, Polytechnic of the South Bank,
Borough Road, London SE1 0AA.
Tel: 01-928 8989 Ext 2025.*

**South Bank
Polytechnic**



To advertise
in this Directory
contact Joanne Barker.

WHERE TO BUY DIRECTORY

Telephone:
01-441 6644 Ext.1154

ACCESSORIES — BRASS PRESSED AND TURNED

S. Lilley & Son Ltd.,
80 Alcester Street,
Birmingham B12 0QE
Tel: 021-622 2385
Fax: 021 6666 148

ACCESSORIES — CEILING CUPS/ CORD-GRIPS/PLUGS/ SWITCHES



Castelco (GB) Ltd.,
High Street, Old Woking,
Surrey GU22 9LE
Tel: 04862 4172/3
Fax: 04862 5317
Reader Service No. 52



Collingwood—VLM Ltd.,
17 Stilebrook Road,
Olney
Bucks
MK46 5LS
Tel: 0234 712121
Telex: 826207
Fax: 713673



HYLEC-Eletro Gibi (UK) Limited
Unit 4, Trinity Centre
Park Farm Industrial Estate,
Wellingborough,
Northants NN8 3ZB
Tel: (0933) 677633
Telex: 312620 HYLEC G
Fax: (0933) 675771

LIGHT SOURCE

Light Source Electrical
Equipment Ltd.,
Lightsource House,
24 Scrubs Lane,
London NW10 6RD
Tel: 01-960 2188
Telex: 915506
Fax: 01-960 8901

ACCREDITED SAFETY TESTS



Albury Laboratories Ltd.,
Albury, Guildford,
Surrey GU5 9AZ
Tel: (048641) Shere
2041/4
Telex: 859336 Albury G

SGS laboratories

SGS Quality Control Int.
Alperton Lane,
Wembley, HA0 1WU
Tel: 01-998 2171

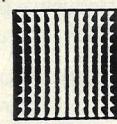
ALUMINIUM EXTRUSIONS

INTERAL

Severn House,
The Moors,
Worcester WR1 3EE
Tel: 0905 723860
Telex: 335294
Fax: 0905 723861
Extrusions — Standard
shapes, specials, columns,
finishings, fabrication and
design guidance.

ALUMINIUM LOW BRIGHTNESS AND VDU LOUVRES

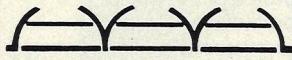
A.D.D. Louvre Sales Ltd.,
8 Seax Way,
Laindon, Basildon,
Essex SS15 6SL
Tel: 0268 415828
Fax: 0268 410985
The UK's foremost
manufacturers of low
brightness aluminium
louvres.



Avonlux Limited,
Nathan Way, Woolwich
London SE28 0AZ
Tel: 01-854 3388
Telex: 896061 (ALPA G)

Maxi Engineering Company,
26/32 Plumstead High St.,
London SE18 1SL
Tel: 01-854 3181

MBM Plastics Ltd
Aluminium Division



204 Oldbury Road,
West Bromwich,
West Midlands B70 9DE
Tel: 021-553 7551
High quality louvres for the
lighting industry.
Also — a wide range of
plastic light controllers.

ANODISED ALUMINIUM COIL AND SHEET



alanod & Garfield Lewis
Middlemore Road,
Birmingham.
Pre-anodised strip-blanks
for louvres and reflectors
available from stock to
your precise requirements
telephone or fax for more
information and details of
our 9 UK service centres.
Tel: 021 554 5242
Fax: 021 551 9315



Alcan
Anocoil pre-anodised
aluminium coil, sheet and
blanks available ex-stock
from the following service
centres.

Tipton 0902-880881
Uxbridge 0895-444554
Leeds 0532-450304
Glasgow 041-647-9222
Southampton 0703-611471
Bridgend 0656-55981

Ano-Coil Ltd.,
Bilton Road, Bletchley,
Milton Keynes MK1 1HT
Tel: 0908 75642
Telex: 825031
Pre-anodised aluminium for
reflectors, louvres and
decorative uses.

BATTENHOLDERS/ CEILING ROSES/ JUNCTION BOXES

Rock Electrical Accessories
Ltd.,
Commerce Road,
Brentford,
Middx. TW8 8LN
Tel: 01-560 8151
Telex: 264803

BATTERY BASED EMERGENCY STANDBY SYSTEMS

Colbere Eng Ltd.,
Church Lane,
Caldwell, Burton on Trent,
DE12 6RT
Tel: 0283 761267



P. B. Design/Dev
Batteries, Chargers, U.P.S.
Emergency Lighting
Systems, Service and
Sales.
Unit 7
Riverside Business Park
St Annes Road
Bristol BS4 4ED
Tel: 0272 723880 (5 lines)
Fax: 0272 723879
Reader Service No. 53

BEGA LIGHTING STOCKISTS LIGHTING COLUMN SUPPLIERS UNDERWATER LIGHTING

Exterior-Lite Services Ltd.,
Unit 4, The Empire Centre,
Imperial Way, Watford,
Herts, WD2 4YH
Tel: 0923 247254
Telex: 916196

BULKHEAD LUMINAIRES — TUNGSTEN AND ENERGY SAVING



BG Electrical Accessories
Arlen House,
808 Oxford Avenue
Slough, Berks
Tel: 0753 37921
Telex: 847194
Fax: 0753 691468

Super Electrical Products
(Walsall) Ltd.,
Commercial Road,
Leamore Industrial Estate,
Walsall,
West Midlands WS2 2NH
Tel: 0922 710333
Telex: 333394 super

CABLES/SILICONE

Technical Silicones Ltd.,
3rd Floor,
Stamford House,
Stamford New Road,
Altrincham,
Cheshire WA14 1BL
Tel: 061-941 5766

COLD CATHODE

National Signs Ltd.,
1 Hampshire Street
London NW5 2TE
Tel: 01-485 3363
Cold Cathode/Lighting
installations * servicing
nationwide. Wide range of
colours.

S.W.1.

We are Specialist
Consultants in Cold Cathode
and Neon Lighting. Our
company undertakes
design, supply and
Installation. Contact Mr
Beecroft or Mr Watts on 01-
720 2650/01-720 4305

COLOURED SLEEVES FOR FLUORESCENT TUBES

•COLORAP•
E.C. Hinton & Co. Ltd.,
225 Cannon Hill Lane,
London SW20 9DB
Tel: 01-540 5813

COMBINED MAINS AND EMERGENCY LUMINAIRES



The Brightest Solution

Existalite Ltd.,
Project House,
18 Tallon Road, Hutton,
Essex CM13 1TZ
Tel: 0277 263600
Telex: 996770 Apex
Fax: 0277 263592

DECORATIVE LIGHTING GLASS



Collingwood Lighting Ltd.,
17 Stilebrook Road,
Olney
Bucks
MK46 5LS
Tel: 0234 712121
Telex: 826207
Fax: 713673

DECORATIVE OUTDOOR LIGHTING

D.R. Illuminations
Whitegate, Broadway,
Chadderton, Oldham
Lancs OL9 9QG

DECORATIVE WIRE

Arthur Bridgens Ltd.,
Tel: 0742 21477
Fancy, decorative wires
rolled in brass to
customers design

DIMMERS



DFP Electronics Ltd
Meadow Road,
Apperley Bridge
Bradford, BD10 0LY
Tel: 0274 616395

R. Hamilton & Co. Ltd.,
Unit G, Quarry Ind. Estate,
Mere, Warminster,
Wilt. BA12 6LA
Tel: 0747 860088
Telex: 41416 HAMILT G
Fax: 0747 861032

OXTRON Digital Systems

"Environmental Control"
2 Severn Way
Watford WD2 6DJ
Tel: (0923) 672058
Fax: 09236 71592

Strand Lighting (Environ.)

Grant Way (off Syon Lane)
Isleworth
Middlesex TW7 5QD
Tel: 01-560 3171
Telex: 27976
Fax: 01-568 2103

COLD CATHODE

National Signs Ltd.,
1 Hampshire Street
London NW5 2TE
Tel: 01-485 3363
Cold Cathode/Lighting
installations * servicing
nationwide. Wide range of
colours.

S.W.1.

We are Specialist
Consultants in Cold Cathode
and Neon Lighting. Our
company undertakes
design, supply and
Installation. Contact Mr
Beecroft or Mr Watts on 01-
720 2650/01-720 4305

COLOURED SLEEVES FOR FLUORESCENT TUBES

•COLORAP•
E.C. Hinton & Co. Ltd.,
225 Cannon Hill Lane,
London SW20 9DB
Tel: 01-540 5813

United Automation Ltd.,
Heat Lamp Dimmers
Liverpool Road,
Southport PR8 4PJ
Tel: 0704 65713
Telex: 67464 UNITAM

ELECTRONIC CONTROL GEAR



Tridonic Ltd.,
Unit D1, Grafton Way
West Ham Industrial Estate,
Basingstoke, Hampshire,
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

RAM

Ram Electronics (UK) Ltd.,
Iron Row,
Burley in Wharfedale,
West Yorks LS29 7DB.
Tel: 0943 863884
Telex: 518285 RAM G
Transformers. Electronic for
low voltage lighting. High
frequency fluorescent
electronic ballasts. Panel
dimmers.

EMERGENCY LIGHTING CONTROL GEAR



ORBIK Electronics Ltd.,
ORBIK House
Northgate
Aldridge
Walsall
West Midlands WS9 8TH
Tel: 0922 743515
Telex: 339612
Fax: 0922 743173

EMERGENCY LIGHTING EQUIPMENT

Ensura Systems Ltd.,
Farrington Road,
Burnley, Lancs.
Tel: 0282 29261/2/3
Telex: 63300 (Ensura)

Erskine Systems Ltd.,
Lee De Forest House,
Eastfield,
Scarborough,
Yorkshire YO11 3DU
Tel: 0723 583511
Telex: 52562

existalite

The Brightest Solution
Existalite Ltd.,
Project House,
18 Tallon Road, Hutton,
Essex CM13 1TZ
Tel: 0277 263600
Telex: 996770 Apex
Fax: 0277 263592

JSB

JSB Electrical Ltd.,
Manor Lane,
Holmes Chapel,
Crewe,
Cheshire CW4 8AB
Tel: 0477 37773
Telex: 36526
Fax: 0477 35722

MATTALEX

Mattalex
West Side Old Stables,
Birlingham,
Pershore, Worcs.
WR10 3AA.
Tel: 0386 750900
Telex: 334066

Menvier (Electronic Engineers) Ltd

Southam Road, Banbury
Oxon. OX16 7RX
Tel: 0295 56363/273939
Telex: 837829 MENV G
Fax: 0256 840113

Plasmold Safety Systems,
Bruntcliffe Lane,
Morley,
Leeds,
West Yorkshire,
LS27 0LZ
Tel: (0532) 521220
Telex: 556322

Ring

Ring Electronics Ltd.,
Croydon House,
17 Domestic Street,
Leeds, LS11 9RT
Tel: 0532 421666
Telex: 556101

Secundalux Emergency Lighting Ltd.

Gratrix Works, Gratrix Lane
Sowerby Bridge
West Yorkshire HX6 2PH
Reader Service No. 50

Energy Management Lighting Control

Concord Controls Ltd.,
3 Dawson Road,
Mount Farm, Milton Keynes,
Bucks MK1 1LH
Tel: 0908 644366
Fax: 0908 644166

ripul limited

Pindar Road,
Hoddesdon EN11 OET
Tel: 0992 460355
Reader Service No. 51

To advertise
in this Directory
contact Joanne Barker.

WHERE TO BUY DIRECTORY

Telephone:
01-441 6644 Ext.1154

Deta (Electrical) Co. Ltd.,
Deta House,
Westmoreland Road,
London NW9 9RN
Tel: 01-206 0515 (6 lines)

LAMPHOLDERS



Collingwood-VLM Ltd.,
17 Stilebrook Road,
Olney
Bucks
MK46 5LS
Tel: 0234 712121
Telex: 826207
Fax: 713673

DAZZLE

24 London Road,
St. Albans, Herts
Tel: (0727) 36671
Telex: 918375 DAZZLE G
Fax: (0727) 44760
Suppliers of wired and unwired switched lampholders to BS 5042 and BS 4533 and accessories.



EFA Ltd.,
Arlen House,
808 Oxford Avenue,
Slough, Berks.
Tel: 0753 37921
Telex: 847194

Golden Peacock
A-143 New Friends Colony
New Delhi — 110065
India
Tel: (91-11) 635322, 529545
Telex: (031) 62324 LITE IN
Cable: Lightwest
All items meet BS 5042
Part 1: 1981.

A G H

A. G. Hackney & Co. Ltd.,
Westport Road, Burslem,
Stoke-on-Trent ST6 4AP
Tel: 0782 577575
Telex: 36674
Fax: 0782 575230

IMI Reeves Lampholders
Holdford Road, Witton,
Birmingham B6 7ES
Tel: 021-356 7369
Telex: 335959

LIGHT SOURCE

Light Source Electrical
Equipment Ltd.,
Lightsource House,
24 Scrubs Lane,
London NW10 6RD
Tel: 01-960 2188
Telex: 915506
Fax: 01-960 8901

S. Liley & Son Ltd.,
80 Alcester Street,
Birmingham B12 0QE
Tel: 021-622 2385
Fax: 021 6666 148

BENDER + WIRTH



C. Quitman Ltd.,
Sole Agent and Stockist for
Bender and Wirth
Ullswater Crescent,
Marlpit Lane, Coulsdon,
Surrey CR3 2HR
Tel: 01-668 5295/6
Telex: 945809

Rock Electrical Accessories Ltd.,
Commerce Road, Brentford,
Middlesex TW8 8LN
Tel: 01-560 8151
Telex: 264803

Studen Products Ltd.,
Villiers Street,
off Cobden Street,
Pendleton, Salford,
Manchester M6
Tel: 061 736 8855
Bakelite and brass wired
holders.



Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113



Vossloh Ltd.,
122 Tanners Drive,
Blakelands,
Milton Keynes MK14 5BP
Tel: 0908 611060
Telex: 825606 LIVO G
Fax: 0908 613131

LAMP COLOURING



Lampcolors Ltd.,
Wiseman Street,
Burnley,
Lancs BB11 1RU
Tel: 0282 562312
The largest independent
lamp spraying company
in Europe, with the fastest
turnround of orders in the
business.

Lampspray (Lampcolourers)
Unit 41/42,
Cromwell Industrial Estate,
Staffa Road, London E10
Tel: 01-539 7785

LAMP SHADE FRAMES

A & J Lampshade Frames
Ringsets and Materials
42 Church Road
Mitcham
Surrey
Tel: 01-648 6776 or
01-540 6145

Brendon C. Hoarau,
149 Tideswell Road,
Eastbourne, Sussex
Tel: 0323 37096
Frames plastic coated
delivered anywhere in
England. Good quality, good
prices, fast and reliable
delivery.

C & G Weir (Glasgow) Ltd.,
Project 9 Unit D/A
91 McPhail Street
Bridgeton
Glasgow G40 1ND
Tel: 041-554 3126
'Quality coated frames,
shade carriers and ringsets'.

Wards Coatings
Sheffield S2 3DA
Tel: 0742 580963
Manufacturers of quality
frames in round or flat wire.
Coated or plain wire.

LAMPS AND LIGHTING

American Lamps and Lighting Ltd.,
367 Uxbridge Road,
Acton, London W3 9RH
Tel: 01-993 3181
Telex: 894452



Chadwell T.S.M. Ltd.,
Unit No.2
Southbrook Mews,
Southbrook Road, Lee,
London SE12 8QL
Osram-Thorn-Philips-
Omega-Wotan.
Tel: 01-318 5071

H. J. Rose,
84 Boundary Road,
London E17 8JU
Tel: 01-521 5845
Coloured lamps a
speciality.

TUNGSRAM

Tungram Lighting Ltd.,
151b Park Road
St John's Wood
London NW8 7HT
Tel: 01-722 6611
Telex: 266086 TULITE G
Fax: 01-586 1758

LIGHTING ACCESSORIES/CONNECTORS

Rock Electrical
Accessories Ltd.,
Commerce Road,
Brentford, Middx. TW8 8LN
Tel: 01-560 8151
Telex: 264803
The revolutionary new
KLICK connector makes a
mechanical and electrical
connection simultaneously.

LIGHTING CONSULTANTS

Light Years,
4 Hutton Grove,
London N12 8DS
Tel: 01-446 6021

LIGHTING CONTROLS



ECS Energy Conserv. Systems Ltd.,
Enterprise House, North
Feltham Trading Estate,
Feltham,
Middlesex TW14 0RZ
Tel: 01 751 6514
Fax: 01 890 7438

LIGHTING DIFFUSERS

Diffuser Replacement
Services,
197 Eade Road,
London N4 1DN
Tel: 01-802 1429
Fax: 01-800 9819
Manufacturers of all types of
diffusers and metal louvres.

LIGHTING DIFFUSERS/PLASTICS

Arrow Plastics Ltd.,
Arrow Works,
Hampden Road,
Kingston-upon-Thames,
Surrey
Tel: 01-546 6258
Telex: 8955343

Glazette Ltd.,
Drake Mill,
Bloomfield Road,
Farnworth,
Lancashire BL4 9LP
Tel: 0204 791185/791387

MBM Plastics Ltd.,
204 Oldbury Road,
West Bromwich,
West Midlands B70 9DE
Tel: 021-553 7551
Extruded, fabricated and
moulded diffusers for the
lighting industry.
Also — aluminium louvres.

LIGHTING GLASS

Glastics Ltd.,
Common Lane,
Wath-upon-Dearne,
Rotherham, S63 7DY
Tel: 0709 878721
Telex: 547455



C. Quitman Ltd.,
Ullswater Crescent,
Marlpit Lane, Coulsdon,
Surrey CR3 2HR
Tel: 01-668 5295/6
Telex: 945809

LIGHT MEASURING INSTRUMENTS

Bentham Instruments Ltd.,
2 Boulton Road,
Reading,
Berks RG2 0NH
Tel: 0734 751355
Telex: 848686 BENTMG



Hagner International
(UK) Ltd.,
Itchenor, Chichester,
West Sussex PO20 7DA
Tel: 0243 512387

Megatron Limited,
165 Marlborough Road,
London N19 4NE
Tel: 01-272 3739

Micron Techniques Ltd.,
Representing (Photo
Research, Optronic Labs,
LMT, Berlin)
15 Riverside Park,
Wimborne Minster,
Dorset BH21 1QU
Tel: 0202 841261
Fax: 0202 884353
Telex: 417204 MICRON G



Minolta UK Limited,
1-3 Tanners Drive
Blakelands North
Milton Keynes
MK14 5BU
Tel: 0908 211211

LIGHT LEVEL SWITCHES



Ryd Design Limited,
Rye, East Sussex
Tel: 0797 226600
Fax: 0797 224834
Miniature low cost.

LIGHT SOURCES & COMPONENTS TO OEM MANUFACTURERS



EFA Ltd.,
Arlen House,
808 Oxford Avenue,
Slough, Berks.
Tel: 0753 37921
Telex: 847194
Fax: 0753 691468

Thorn EMI Lamps &
Components Ltd.,
Miles Road, Mitcham,
Surrey CR4 3YX
Tel: 01-640 1221
Telex: 25534 TELC.G

LOW BRIGHTNESS VDU LOUVRES



A.L.C. Cellite Ltd.,
Unit 16 Alder Ind. Est.,
Betts Road, Hayes,
Middlesex UB3 1ST
Tel: 01-848 1881

MANUFACTURERS OF SPECIAL AND PURPOSE MADE FITTINGS

Maxi Engineering Co.,
26/32 Plumstead High St.,
London SE18 7SL
Tel: 01-854 3181



Vector Lighting Ltd.,
Porte Marsh Estate,
Calne, Wiltshire SN11 9PU.
Tel: 0249 814548
Telex: 445966 TEKCON G

SYMONDS

Symonds Engineering plc,
High Street, Cheshunt,
Herts EN8 0BU
Tel: 0992 262222
Telex: 28725
Luminaires/louvres, major
trade suppliers.
BS5750 part 2.
Contact: Lee Freeman.

METAL FINISHERS

Shade your metal products
with
Armourfin
A superb simulated brass or
gunmetal finish on steel and
other metals.
Will not tarnish or oxydise.
Does not affect springs or
hinges.
Other colours available.
All finishes to a high gloss.

Regency Line Ltd.

3-9 Norman Road, Ilford,
Essex IG1 2NQ
Tel: 01-553 1551/1779

METAL PRESSWORK AND POWDER COATING

Colmore Pressings Ltd.
40-41 Macdonald Street,
Birmingham B5 6TQ
Tel: 021-692 1701/1702
Wide range of standard
parts for domestic and
industrial light fittings.

METAL SPINNERS

A. L. Munro (B'ham) Ltd.,
29 Hunters Road
Birmingham B19 1DP
Tel: 021-554 0424
Fax: 021-523 0617
Metal Spinners for the
Lighting Industry.

Anglia Spinners,
Spinneys, presswork,
spraying & finishing,
Unit 115a,
Little Staughton Airfield,
Little Staughton, Beds

Tel: Colmworth
0230 62 398
H.D. Collins Ltd.,
Delamare Road,
Cheshunt,
Herts EN8 9TB
Tel: 0992 25981/24936
Fax: 0992 36915
Auto and manual spinners,
presswork and assy.

50-Steps Lighting International
Ltd.,
5th Floor
Federal Centre
77 Sheung on Street
Chai Wan, Hong Kong.
Tel: 5 897 1060
Telex: 78049 FIFTY HX
Fax: (852)-5-897-0509

ORIENTAL LAMPS AND SHADES
50-Steps Lighting International
Ltd.,
5th Floor
Federal Centre
77 Sheung on Street
Chai Wan, Hong Kong.
Tel: 5 897 1060
Telex: 78049 FIFTY HX
Fax: (852)-5-897-0509

E.G. Sheet Metal Works,
Metal spinners and
general sheet metal
workers. A complete service
to the lighting industry.
Third Way,
Exhibition Grounds,
Wembley, Middlesex
Tel: 01-902 2153
01-903 3171

Jacksons General Metal Spinners

Prototypes and small
quantities a speciality
Paramount Industrial Estate
Sandown Road
Watford, Herts
Tel: 0923 50510

K.A.S.

Metal Spinning Ltd.,
Glebe Farm, Creak Road
Sculthorpe, Nr Fakenham
Norfolk NR21 9NF
Tel: 0328 55208

Moore Metal Spinners Ltd

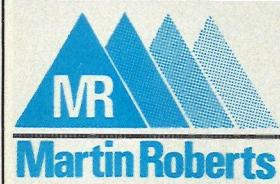
3 Sussex Place
London W6 9EA
Tel: 01-748 6061
Comprehensive service to
the lighting industry from
prototypes to batch
production.

METAL SPINNING/ASSEMBLY ANODISING/PRESSWORK METAL WORK/SPRAYING

Shawe Metal Spinners Ltd.,
Injection Moulders &
Component suppliers. The
complete Lighting Services.
Tariif Road, London,
N17 0EJ
Tel: 01-808 1271
Telex: 25545

MOD

WHERE TO BUY DIRECTORY



Martin Roberts
Grimrod Place
East Gillibrands
Skelmersdale
Lancashire WN8 9UU
Tel: 0695 33068
Telex: 629020
Fax: 0695 50227
Manufacturers of all types of luminaires and metal louvres to the Trade.

SPRINGS & WIRE SHAPES FOR DIFFUSERS AND LOUVRES

MH Springs Ltd.,
Unit 5, Brunswick Park
Industrial Estate, London
N11 1JF
Tel: 01-368 0004
Fax: 01-368 0078

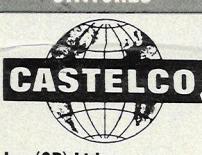
STANDARD & SPECIAL LUMINAIRES & FLUORESCENT LIGHTING DESIGN SERVICE

Maxi Engineering Co.,
26 Plumstead High Street,
London SE18 1SL
Tel: 01-854 3181

STEEL LIGHTING COLUMNS

Concrete Utilities Ltd.,
Lower Road,
Great Amwell,
Ware, Herts.
Tel: 0920 2272/6
Telex: 81398

SWITCHES



Castelco (GB) Ltd.,
High Street, Old Woking,
Surrey GU22 9LE
Tel: 04862 4172/3
Fax: 04862 5317
Reader Service No. 52

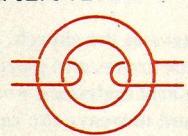
TERMINAL BLOCKS

Hylec-Eletro Gibi (UK) Limited
Unit 4, Trinity Centre,
Park Farm Industrial Estate
Wellingborough,
Northants NN8 3ZB
Tel: (0933) 677633
Telex: 312620 HYLEC G
Fax: (0933) 675771

TOROIDAL TRANSFORMER MANUFACTURERS

A. A. Samsons Electronics Ltd.,
Tel: 01-262 5125 or
01-723 7851

Airlink Transformers Ltd.,
Unit 6, The Maltings,
Sawbridgeworth, Herts.
Tel: 0279 724425



Toroid Technology Ltd.,
175A Brigstock Road,
Thornton Heath,
Surrey CR4 7JP
Tel: 01-689 8002, 684-4217
Telex: 8813271 Gecoms G

TOWER/MASTS FLOODLIGHTING

Francis & Lewis Ltd.,
The Runnings,
Kingsditch Estate,
Cheltenham,
Gloucester GL51 9NQ
Tel: 0242 513882
Telex: 43428

Padnall Structures Ltd.,
27 Cheyne Walk, Horley,
Surrey
RH6 7PE
Tel: 0293 784168

Towermaster Steelwork Ltd.,
Braintree,
Essex CM7 7YN
Tel: 0376 24809
Telex: 987312 TOWERS G

TRANSFORMER MANUFACTURERS

Burrows Electrical Ltd.,
Railway Street,
Chelmsford, Essex
Tel: 0245 267428



Carroll & Meynell Ltd.,
Portrack Grange Road,
Stockton-on-Tees
Cleveland TS18 2PH
Tel: 0642 617406
Telex: 58646

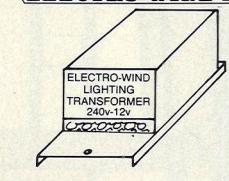
Fax: 0642 614178
Manufacturer of Low Voltage Transformers.

Colbere Eng Ltd.,
Church Lane,
Caldwell, Burton on Trent,
DE12 6RT
Tel: 0283 761267

Cumbernauld Transformers Ltd.,
18-20 West Lenziemill
Industrial Estate,
Cumbernauld,
Glasgow G67 2XT
Tel: 023-67 25914
Telex: 777350

Full range of low-voltage
transformers available.

ELECTRO-WIND LTD

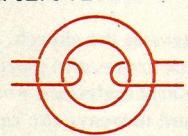


Hylec-Eletro Gibi (UK) Limited
Unit 4, Trinity Centre,
Park Farm Industrial Estate
Wellingborough,
Northants NN8 3ZB
Tel: (0933) 677633
Telex: 312620 HYLEC G
Fax: (0933) 675771

TOROIDAL TRANSFORMER MANUFACTURERS

A. A. Samsons Electronics Ltd.,
Tel: 01-262 5125 or
01-723 7851

Airlink Transformers Ltd.,
Unit 6, The Maltings,
Sawbridgeworth, Herts.
Tel: 0279 724425



Toroid Technology Ltd.,
175A Brigstock Road,
Thornton Heath,
Surrey CR4 7JP
Tel: 01-689 8002, 684-4217
Telex: 8813271 Gecoms G

TRANSFORMERS & LIGHTING

TEKCON
Tekcon Electrical Limited
Porte Marsh Estate
Calne, Wilts. SN11 9PU
Tel: 0249 814548
Telex: 445966 TEKCON G
Lamp Transformers (SELV)
50VA to 600VA rating.

Tridonic

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

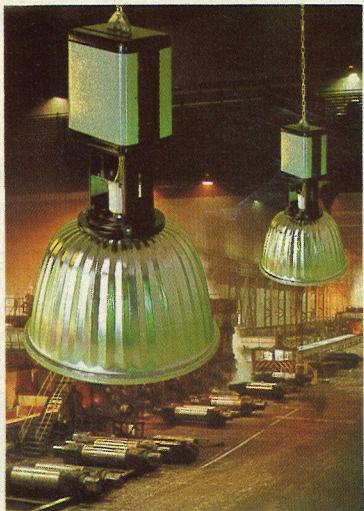
TRANSFORMERS & LIGHTING

TEKCON

Tridonic Ltd.,
Unit D1, Grafton Way,
West Ham Industrial Estate,
Basingstoke, Hampshire
RG22 5HY
Tel: 0256 843232
Telex: 858137
Fax: 0256 840113

TRANSFORMERS & LIGHTING

TEKCON



Fael LUCE®



'Yes' High Bay Lighting Range launched by Fael Luce

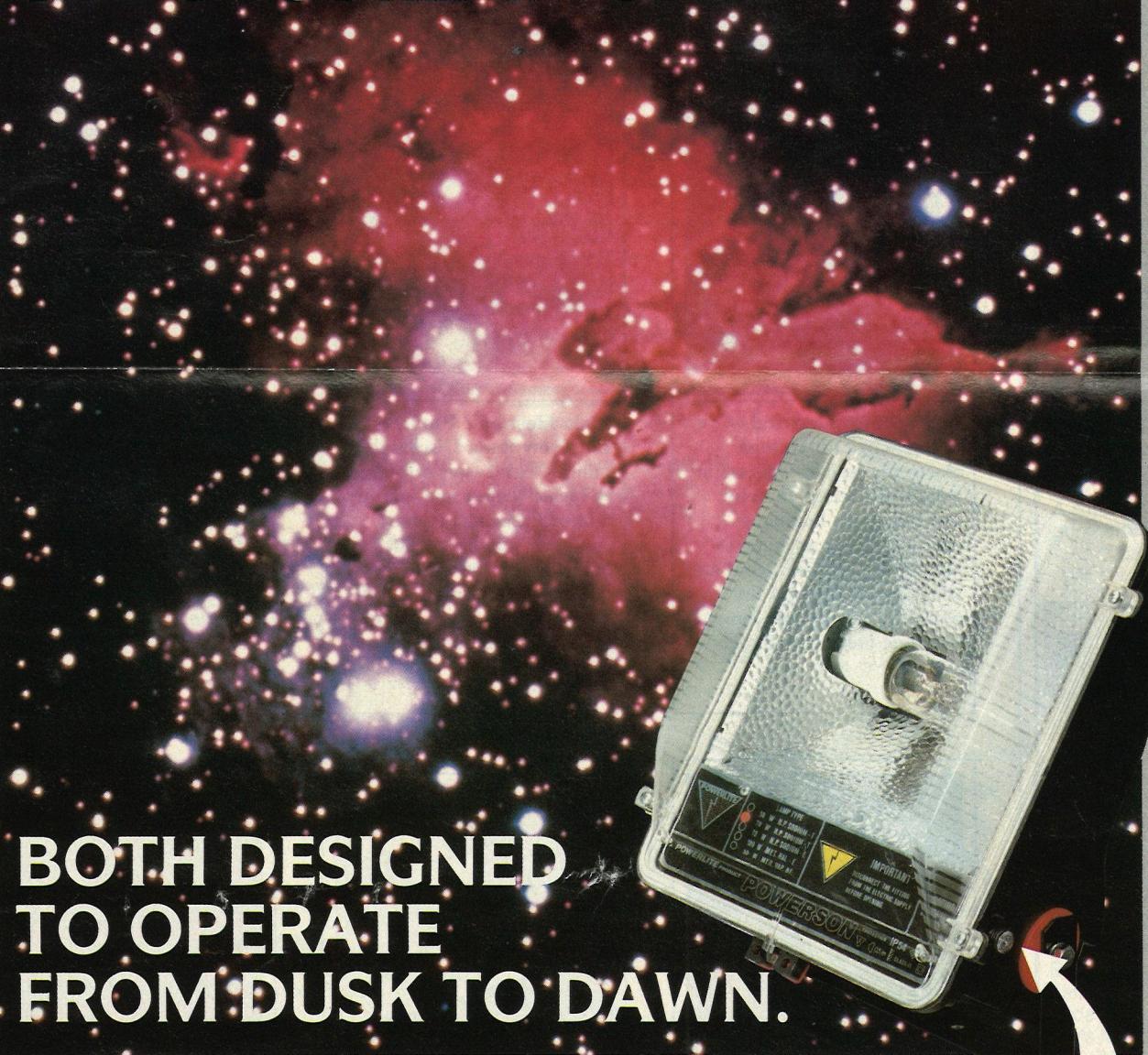
A new range of multi-purpose, high-performance, energy saving high bay lighting for use in a variety of applications, from industrial and retail through to leisure and commercial establishments, has been launched in the UK by Fael Luce Limited.

QUALITY PRODUCTS FROM FAEL

Fael Luce UK Ltd, Unit 2, Eastern Road, Aldershot, Hants GU12 4TD
Telephone (0252) 336555

Reader Service No. 11

TWO GREAT CREATIONS



STARMASTER

PHOTOCELL OPERATED LUMINAIRE

70 Watt High Pressure Sodium for golden light Code CMS 70.
80 Watt Mercury Fluorescent for white light Code CMF 80.

SECURITY

In the hours of darkness this automatic, Photocell operated luminaire combines low energy consumption with high light output.

SAVING MONEY

- ▼ Save on buying new lamps - the 70 watt SON lamp lasts 5 times as long as the usual tungsten-halogen lamp.
- ▼ Save on labour charges - longer lamp life means less lamp replacements.
- ▼ Save on electricity charges - the POWERSON 70 is 70% cheaper to run than a 300 watt tungsten-halogen floodlight and gives a better light output.

Available from leading wholesalers throughout the U.K.



Reader Service No. 12
Page 16

LIGHTING EQUIPMENT NEWS



Imperial splendour

The immaculately restored Imperial Hotel, Harrogate, has been floodlit by lighting manufactured by GTE Sylvania Ltd.

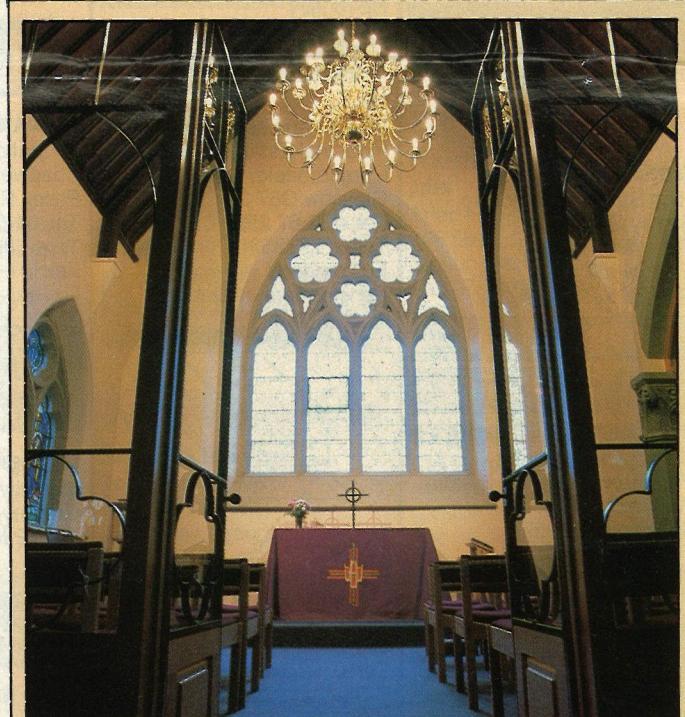
Sylvania Floodkats with 70W and 150W High Pressure Sodium lamps together with Tungsten Halogen floodlights have been chosen to emphasise the hotel's splendid Georgian features and enliven the facade of the hotel which has been restored at a cost of £2 million.

Sunkats with energy-saver tungsten halogen lamps pick up the

architectural detailing and a graduated wash of high pressure sodium establishes a feeling of height and continues the colour theme up to the roof line.

The roof top restaurant was emphasised by carefully sited Weatherline fittings which incorporate triphosphor 2700K tubes to tone with the cream windows lit by tungsten halogen on the lower floors.

Electrical contractor for the project was David Hudson, and wholesaler was ECS.



A new side chapel has been built within the walls of the large 850 seat Seapatrick Parish Church in Banbridge, County Down, as part of the 150th anniversary celebrations of the church's consecration. The chapel, called All Saints, will be used for small communion, marriage and baptismal services. It was designed by Gordon McKnight, a local architect and interior designer, who specified a 48-light Chelsom chandelier from Lighting Design Supplies for the interior.

McKnight closed off part of the columned nave in the church. A wrought iron interior frame, crafted with Gothic arches and glazed for privacy, forms the entrance to the chapel. Local craftsmen were retained to build seats and the reading desk, and to weave the carpet. The designers were seeking a lighting style which would complement the neo-Gothic late Victorian architecture. They chose a cast brass Flemish style chandelier with scroll arms and the characteristic brass ball and ring at the base to provide illumination in the austere chapel interior.

■ IN YOUR NEXT ISSUE ■

Lighting Equipment News brings in the New Year with a brief overview of trends in emergency lighting and complementary developments — such as experimental work being carried out on photoluminescent materials.

Two important conferences will be reported in depth; the European Lighting Council session on lighting at work and the RIBA's recent seminar on trends in lighting design for members of the design professions.