

LIGHTING

EQUIPMENT NEWS

AUGUST 1989

In brief ...

● **LightGraphix Ltd** has appointed a new distributor for its complete range of products: Design Lighting (Bristol) Ltd.

● **Apollo Lighting Ltd** is a new company formed to embrace the former activities of Apollo Emergency Lighting Services and ABT Lighting. Keith Parsons has joined the board of directors. The company is operating from Apollo House, North West Road, Leeds LS6 2QE.

● **Quest Lighting Ltd** and Emess Lighting (UK) Ltd have been amalgamated and will now trade as Quest Emess Ltd, from Stourbridge. Barry Lister has been appointed managing director, Peter McGrath chairman and Allen Mitson vice-chairman.

● **Lighting & Ceiling Louvres Ltd** has now received a certificate confirming that its quality assurance scheme meets the requirements of BS5750 Part 2.

● **Pact International Ltd** has added a £1 million extension to its warehouse, providing increased capacity for growth and rapid response to new market opportunities. Orders are processed by a computerised on-line stock control system and an identical back-up system has been installed.

● **Profile Lighting Services Ltd**, a recently formed commercial lighting company, is based at Links Business Centre, Raynham Road, Bishops Stortford, Herts CM23 5NZ.

● **Urban Enviroscape Ltd** is now offering its sealed beam road lanterns with Osram's new 70W SON lamp, which at 2000 hours is stated to have an output of 6180 lumens giving 10% extra illuminance.

● **Derek Phillips Associates** is in future to be known as DPA. Its team of experts now covers the fields of architecture, daylighting, illuminating engineering, luminaire design, theatre lighting and lasers, providing a balanced approach to deal with any architectural lighting project.

● **Rada Lighting Ltd** has been certified as a company of Assessed Capability to BS5750 Part 1/ISO9001:1987, gaining assessment to full European certification standards for quality assurance.

● **ICC Financial Surveys Ltd** has published *Electrical Wholesalers Financial Survey*, price £195. It is available from ICC at 72 Oldfield Road, Hampton, Middx TW12 2HQ.

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Emess expands in France

Emess plc is to acquire some 89% of the issued share capital of Eclatec of France, for approximately £5.3 million, to be satisfied by a vendor placing of 4.6 million 6.25p (net) convertible cumulative redeemable preference shares of 5p each at 115p. The transaction has been cleared by the French Direction du Trésor. Emess is obtaining an irrevocable acceptance in respect of a further 10% of Eclatec's issued share capital and the shares concerned will be acquired for cash.

Eclatec, a non-quoted French company operating from Nancy and Paris, is stated to be the third largest manufacturer of commercial lighting fittings in France.

Principal products are lighting for roads, tunnels and motorways; this includes traditional style street lighting. Other outdoor products are luminaires for petrol stations and car parks. Another major area is luminaires for offices and public buildings.

In 1988, on sales of 137 million francs, profit before tax was approximately 8 million francs.

Recent prestigious projects completed by Eclatec include the Grande Arche at Tête Défense, the Musée d'Orsay in Paris and the Pont de l'Île de Re where Eclatec products were installed to illuminate the 3km length of the bridge.

Guy Cervellini, formerly managing director of the Jumo Concord, Lumiance and Le Dauphin lighting companies has been

appointed as the chairman of Eclatec.

Commenting on the acquisition Michael Meyer, chairman of Emess, said that Eclatec had been purchased to expand the commercial lighting interests of Emess in France.

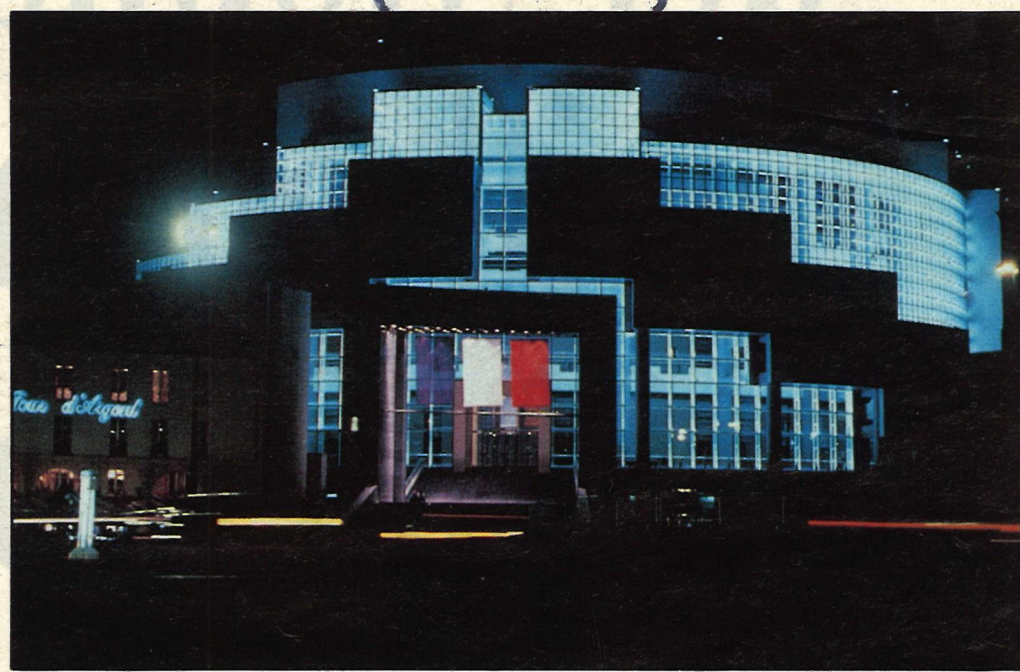
It will facilitate the sale of Marlin lighting fittings there because Eclatec has no products similar to Marlin's. Ownership of Eclatec will also enable its complementary lighting to be distributed in the UK. At present Eclatec exports 30% of its production.

Mr Meyer says that Eclatec is a well managed company with an enviable product reputation in Europe. He added: "I am particularly pleased that the present management has agreed to assist us in our development in France".

Among British-owned lighting fittings companies, Mr Meyer thinks that Emess is now probably the second largest (after Thorn).

When asked by *LEN*, "Where is Emess going after this?" he replied, "We've got a lot more to do. We've only just started". He envisages expansion not only in Europe but in North America and the Pacific Basin. Currently, the company claims to have just over 1% of the world market for lighting fittings.

Emess shares have just been listed on the Frankfurt Stock Exchange — further evidence of the multinational character of the company.



Photos: Didier Degrendel

Setting the Bastille alight 1989 style

From dawn to dusk, pulsating lighting at the Opera Bastille, the new Paris opera house, enhances the architectural features of the building: its transparent elements, massing and angles. The lighting display is governed by a computer which reveals by rhythms and harmonies in external lighting the internal functioning of the building, picking up electrical impulses from building services elements, such as lifts, air conditioning and security systems, and transforming these into pulses of light.

The installation was designed by Yann Kersalé, best known for the pulsed lighting system he installed in the Grand Palais, in Paris, in 1987. Equipment and lighting engineering were supplied by Philips Eclairage.



A new light on windows

The new factory of M & M Windows, a Sussex-based upvc double glazed window manufacturer. The 622 square metre factory unit in Uckfield is the company's second. The lighting system comprises 15 industrial Radpak fittings incorporating 250W de luxe high pressure sodium lamps.

The new building recently received a highly commended award in the EMILAS scheme. Our feature on page 6 looks at other award-winning schemes.

Aiming high

Sheffield University and Thorn Lighting are undertaking a joint venture to investigate the high temperature operation of lighting sources using advanced laser and computer modelling equipment. The aim is to improve the energy efficiency and performance of lamps, particularly discharge and tungsten halogen light sources.

To this end they have set up high

temperature science laboratories at the university, which occupy some 70 square metres of floor space and contain optical tables for six lasers.

During a lamp's operation, high temperatures are achieved in a small confined volume — for example in a high pressure mercury discharge lamp, temperatures can reach up to 5700°C, enough to vapourise most materials. The combination of laser technology and powerful computer modelling provides a unique, non-intrusive

method to help measure temperature and chemical reactions, and to examine gas flows within such lamps. This will lead to a greater understanding which will help to improve lamp life and create options for new products.

The chemistry department at Sheffield University has developed expertise in many areas, including high temperature physical chemistry, fluid flow modelling and laser spectroscopy, which are directly relevant to the new project.

HELVAR

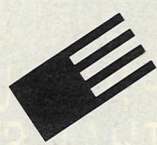
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THE NEW - LIGHT CONTROL SYSTEM

The Salone del Mobile di Milano will open its doors on September 20th 1989. It'll be the last chance to get into Europe before the 1990s.



On September 20th Italy will take a seat in the Europe of the nineties a good 100 days before the calendar.

A time machine, perhaps?

No, the Salone del Mobile di Milano (a fair success even before it begins, since Milan is Europe's furniture capital). Its aim is to fulfill new functional, aesthetic and emotional requirements through projects and production.

A new view of living space.

Is it the same old story of things made in Italy?

No, it's not. It's something new: Italians are facing up to the nineties.

At the same time as the 29th Salone del Mobile

di Milano there will be: the Euro luce - International Lighting Exhibition; the "Neoliberty e dintorni" Exhibition; the preview of products in the running for the XV Compasso d'Oro; Forum Design '89; Forum Office Design and the Office Design Competition. Plus, EIMU '89 - International Biennial Exhibition of Office Furniture.

And what's more, the Furnishing Accessories Exhibition will get off the ground just two days later.

So, thanks to all this activity, by the time the next decade reaches Milan, Italian Furniture will have been resting on its laurels over 3 months.

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Crowning glory

The natural beauty of Bamburgh Castle, an outstanding landmark on the Northumbrian coastline, has recently been enhanced by a floodlighting system from Osram-GEC.

The castle stands on an ivy covered rock outcrop, so a two-tier system was recommended as the most effective method of lighting both the outcrop and the castle, to give dramatic views from the surrounding countryside.

Lighting for the lower level is

provided by 17 Osram Solarflood luminaires, fitted with 400W metal halide lamps. The combination gives a dispersed, fan-shaped beam suitable for general lower level floodlighting, producing a soft green light to emphasise the hue of the ivy.

For the illumination of the castle, 18 Euroflood luminaires fitted with 400W Son Plus lamps are used, installed between the Clock Tower on the west side, and Davy Tower to the east. The luminaires

produce an intensified pencil beam, giving greater light projection to emphasise architectural features, and the lamps produce a pleasant golden light that complements the stonework of the castle.

The keep is separately treated. A Solarflood fitted with 400W Son Plus lamp is positioned to the west of the keep, creating a wide wall-washing effect, while a smaller Solarbeam with 250W Son is unobtrusively sited to light the public area.

CIBSE moves to prevent sick buildings

While research into sick building syndrome is continuing, CIBSE is providing interim guidelines to members to ensure the highest standards of design, installation, commissioning and maintenance.

These are contained in a policy statement which reviews current knowledge of sick building syndrome, including possible contributory factors, and advises engineers on the assessment of complaints.

The document can be obtained from CIBSE at 222 Balham High Road, London SW12 9BS.

Consultants cross the Atlantic

Oscar Faber plc has invested in Joseph R Loring Associates Inc a firm of consulting engineers based in New York and Washington DC. Oscar Faber has acquired a 30% interest in the US company with an option to acquire full ownership at a later date.

The agreement creates one of the largest trans-Atlantic alliances of consulting engineers: Oscar Faber employs 450 people; Joseph R Loring Associates has 160 employees; and the turnover of the new association exceed £24m.

Light storage

Redirack Limited has designed a Redistore post pallet for Thorn Lighting, as part of a £220 000 contract.

The pallet is designed to store and transport the various sizes and types of fluorescent light fittings assembled at the factory in Spenneymoor, County Durham.

Working in close consultation with Thorn, Redirack produced a series of prototype pallets, in order to develop a model which satisfied Thorn's functional and economic requirements.

The pallets are constructed in steel and have removable posts, enabling them to be stored or transported flat when empty. Each pallet has a maximum working load of 1500Kg and can be block-stacked up to five high. The pallets are also designed to be used in conjunction with adjustable and drive-in pallet racking.

The first order, for 1000 pallets, was rapidly followed by further orders for 4000 to correspond with the opening of Thorn Lighting's new Northern Distribution Centre

at Normanton, West Yorkshire and at the expansion of the existing Southern Distribution Centre at Romford in Essex.

Previously, boxed fittings were simply shrink-wrapped onto conventional wooden pallets. This gave little support or protection to the goods so that stacking more than two pallets high caused unacceptable levels of damage.

The first pallets are now fully operational at the Spenneymoor plant and manager, Eric Webster reported that the pallets were "so cost effective that we have dismantled an existing racking installation to make room for some more units".

"The Redistore units stack five high, with or without pallet racking", he added, "so that we can make much better use of our floor area and fit more pallets into our vehicles, without damaging the contents. The staff particularly like the Redistore pallets because they are easier to handle and give access from all four sides, even when formed into free-standing stacks."

Wholesalers into Europe

Together into the 90's was the theme of this year's Electrical Wholesalers' Federation conference held at Olympia, London.

Delegates were told that UK electrical wholesalers could not afford to "wait and see" what happens in 1992 while competitors in Europe were already researching the British market and making their plans.

Michael Dowsett, MK Electric, felt that acquiring a company abroad was probably the best way to launch new products and gain new markets. He said that in any

case the needs of the customer should be paramount.

Andrew Osmond, Thorn Lighting, thought the massive increase in the choice of products would bring problems. He forecast that the UK voltage would be brought into line with the voltage in continental Europe. Smaller companies, he thought, would find trading more difficult and there would be a concentration of big companies, perhaps leading to as much as a 50% reduction in the total number of companies in the electrical industry.

Frank Davenport of the Electricity Council, discussed the organisational changes leading up to privatisation of the electricity supply industry.



Casting a new light on sales

Lighting is a major feature of the refurbishment of a Plymouth car showroom, Vospers Motor House.

The lighting design, by Light Years combines a medium ambient light level with highlighting of the cars using spotlights, and display lighting of the graphics around the perimeter of the showroom.

Over 40, 1.8m 70W low brightness surface-mounted fluorescent luminaires with triphosphor lamps at 3 500K are installed in continuous rows to give a uniform ambient lighting level throughout the floor, the working planes and over the cars on show.

The luminaires have centrally mounted control gear which allowed the wiring to run through the luminaires rather than across the ceiling, and white stove-

enamelled crossblades were used to brighten the lighting effect of an essentially low brightness scheme.

Contrast has been achieved with strategically placed white Superbeam spotlights which use the powerful 3 000K 75W Wotan Super Spot lamps, designed for accent lighting over long distances to highlight the cars on show.

Displays around the perimeter of the 500 sq m showroom have been illuminated with low voltage Universal spotlights using the Halo Star Super Spot lamp. The Spotlights can be adjusted to any angle and are mounted on Tube Track 30 suspended from the ceiling.

Multiple switching allows fluorescent lighting to be reduced by as much as 75%. Low voltage fittings are on a separate circuit.

COMMENT

On designing white elephants

It is a sad comment on design education in Britain that the judges found it impossible to make an award for luminaire design in this year's New Designers Awards.

The judges' remarks here are most enlightening: they found nothing among the entries that could usefully be employed in a lighting design project! There were, they admitted a number of innovative ideas, but these were 'inappropriately conceived technically' and seemed to be in the tradition of design for design's sake rather than design for production.

Michael Jankowski, Marlin Lighting's Design Director, and one of the judges, felt that little consideration appeared to have been given to the 'realities of lighting at the onset of the project'. He went on to record a sense of disappointment that there seemed to be so much misunderstanding among students as to what market requirements really were.

So, what are the shortcomings in design education that make this state of affairs possible? Jankowski compared the situation in the UK with that in continental Europe. When working in Holland he had regularly had contact with students and academics. Both would come and talk to him as a manufacturer and expect counselling, just to give the project that contact with reality that made it a useful learning tool for the student.

In his opinion, government, professional institutions, manufacturers, students and educationalists seemed to have more natural contact with each other in mainland Europe than we had in Britain.

If such contact does not develop naturally in this country how, then, can it best be stimulated? Schemes like *Designers into Industry* sponsored by the Royal Society of Arts, provide excellent industrial experience for those who wish to specialise in lighting, but can only offer a strictly limited number of places — and at graduate level.

What is really needed is ongoing contact at undergraduate level. How can we achieve this? According to Sally Storey of Lighting Design Ltd, who also judged the awards, tutors need to bring in outside consultants for lighting projects. These should include both a lighting consultant who can explain what lighting can do, and a manufacturer who can discuss the constraints imposed on luminaire design by production requirements. Although the former would probably need to be brought in by tutors using the limited budgets at their disposal, surely some manufacturers would be prepared to offer their expertise free of charge.

So manufacturers, if you wish to improve the general standard of luminaire design in this country, approach your local college of design and offer your services.

LIGHTING EQUIPMENT NEWS

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NEW PRODUCTS

Solar powered lighting

Chronar Ltd has added another outdoor decorative lighting system to its range of solar powered garden and outdoor lighting.

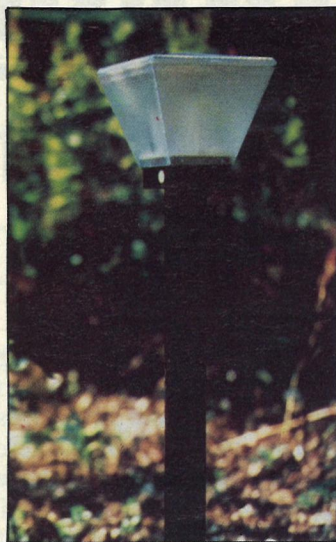
Light Fantastic is a post top lantern, with clear acrylic diffuser, that can be adjusted, for example, to glow brightly during the evening and softly throughout the night.

The tiny integral solar panel allows it to stand alone requiring no wiring, installation or maintenance, as well as costing nothing to run.

When night falls the light automatically switches on, and as dawn arrives it turns off.

Light Fantastic highlights plants and shrubs and animates pools and waterfalls.

The full power setting gives bright light for up to six hours and a low wattage lamp permits



extended running for up to 24 hr at a reduced level for a soft glow.

A third setting lets internal nickel cadmium batteries recharge for longer operation at either output when required.

Reader Service No. 151

Amenity lighting

Chronar has also launched a range of solar powered amenity lights which are claimed to be the most

effective yet produced.

AreaLites are self-contained, automatic lighting packages, each consisting of an array of solar modules with a luminaire and battery pack. They can be mounted either on a 3m column or on a wall.

A light sensor switches on the light at dusk and a built-in timer turns it off after a set number of hours.

Designed for small to medium-sized commercial and public lighting applications, AreaLite is suitable for hotel grounds, car parks, sports and recreation areas.

Eight versions are available, each with a different combination of solar panel size and lamp wattage, allowing the product to be matched to the application according to lumen output requirements and nightly operating hours.

For example, the ALS417 has a four-panel module and uses a 7W PL type compact fluorescent lamp to give 450 lumens for 10 hours. The ALS429 gives 1200 lumens for five hours using two 9W lamps and a four-panel solar module.

Customised models can be produced, such as a 150W tungsten halogen version with infra-red sensor for security purposes.

Reader Service No. 152

Low voltage transformers

A range of transformers for low voltage lighting has been introduced by Technical Sales and Services (Saddleworth) Ltd.

Paragon transformers have windings to class F on double insulated bobbins. Output is 11.6V full load. A single non-reset heat fuse

provides overheating protection. The all-insulated enclosure measures 110 x 103 x 105mm.

At present 100VA and 50VA versions are available, but the range will be extended.

Reader Service No. 153

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

Smaller sealed LV lamp

A 35mm diameter, 12V, tungsten halogen lamp with axial filament and sealed front has been added to the Tru-Aim Professional range by GTE Sylvania Ltd.

The 20W size is available in 10°, 20° and 30° beam angles; the 35W size in 10° and 20° beam angles.

Reader Service No. 154

Courtesy home floodlighting

Fitzgerald Lighting has introduced a 500W tungsten halogen floodlight with a passive infra-red unit attached which detects movement up to 15m away within an angle of 90° and switches on the light.

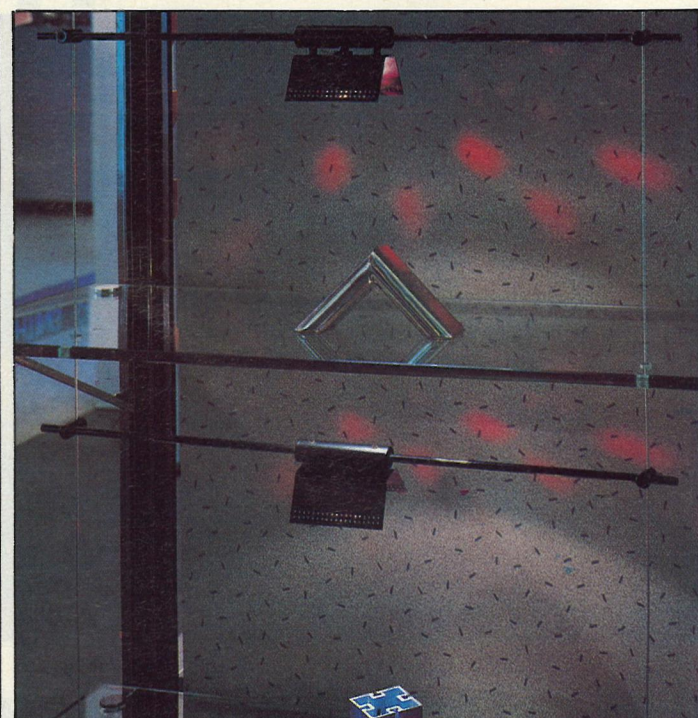
Sceptre welcomes visitors by automatically lighting up when



they approach and deters intruders in the same way.

The floodlight is ingress protection rated IP55.

Reader Service No. 155



Wire-and-rod lighting

Cablelight by Peerless Designs Ltd is a low voltage display lighting system using vertical, tensioned cables and adjustable horizontal rods. The current is carried by

these cables and rods.

Tungsten halogen dichroic lamps rated at 20W and 35W are used with the system. They have black, perforated metal baffles to minimise glare and can be swivelled to give either upward or downward light.

This system is being made in Britain. **Reader Service No. 156**

Emergency signs

Edge-Lite from Menvier (Electronic Engineers) Ltd uses a small fluorescent tube to light the edge of a Perspex screen carrying a warning or advisory notice. The

Edge-Lite, which has a gold coloured finish, can be wall or ceiling mounted. Single and double-sided models are available.

As well as versions for mains only operation, there are others for use with a central battery emergency system or with self-contained batteries.

Reader Service No. 157

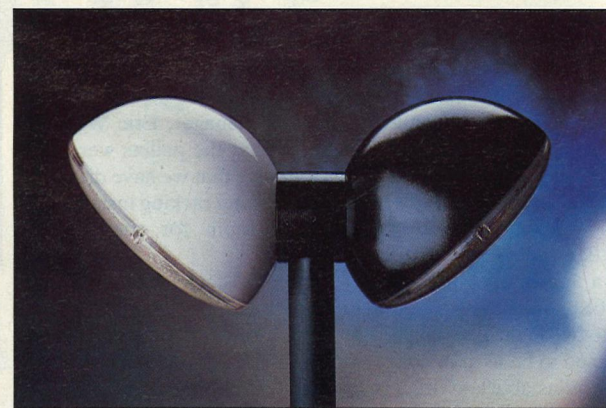
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NEW PRODUCTS



Exterior lighting from Europe

Marlin Lighting now has the exclusive UK distributorship for Boom exterior lighting made in Belgium. Classic styles, mostly finished in black and white, make up the range.

The variety of luminaires offers a style for every setting, from private gardens to public parks and from entrances to pedestrian pre-

cincts. There are hanging lanterns, wall lights, post, pillar and under-canopy lights. Stainless steel, cast aluminium, solid copper, bronze alloy and hand-blown glass are used for their manufacture.

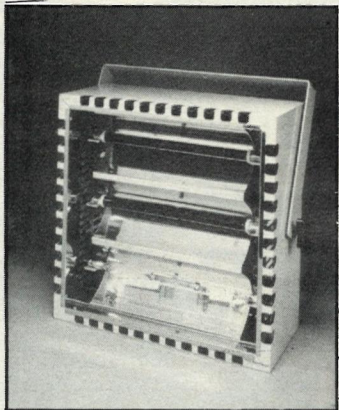
Many models are based on traditional European designs and have names such as Madrid and Vienna. **Reader Service No. 158**

Heat and light combined in one unit

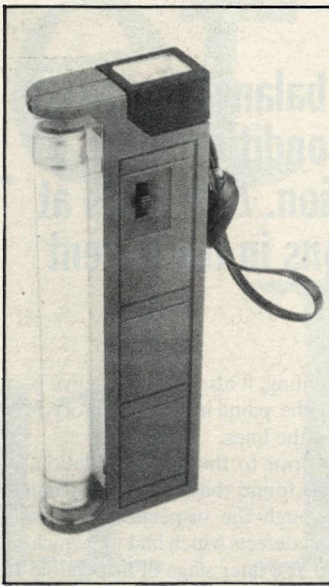
Quartzray Ltd has introduced a combined heat and light unit called Halo (for heat and light option).

Using quartz halogen lamps which radiate heat at a selected short wave frequency, and a high pressure sodium quartz tubular lamp in conjunction with an anodised aluminium reflector, both heat and light can be accurately beamed onto the required area.

The standard Halo unit provides 3kW of heating plus 250W of illumination. Alternative combinations are available to suit specific requirements.



Suitable applications include aircraft hangars, sports halls, warehouses, factories and churches. **Reader Service No. 160.**



Mini lantern is versatile

Mini lantern, from Maplin Electronic Supplies Ltd, combines the features of a hand torch and a fluorescent lantern. Its overall size is only 152 x 53 x 21mm.

The torch part uses a 6V MES tubular pre-focused lamp while the fluorescent lamp is a 150mm 4W tube. A switch on the side of the casing changes from tungsten to fluorescent, as required.

Typical uses include garages, sheds and for camping, fishing, etc. The lantern has a carrying or hanging strap.

The unit operates on four AA cells. **Reader Service No. 161**

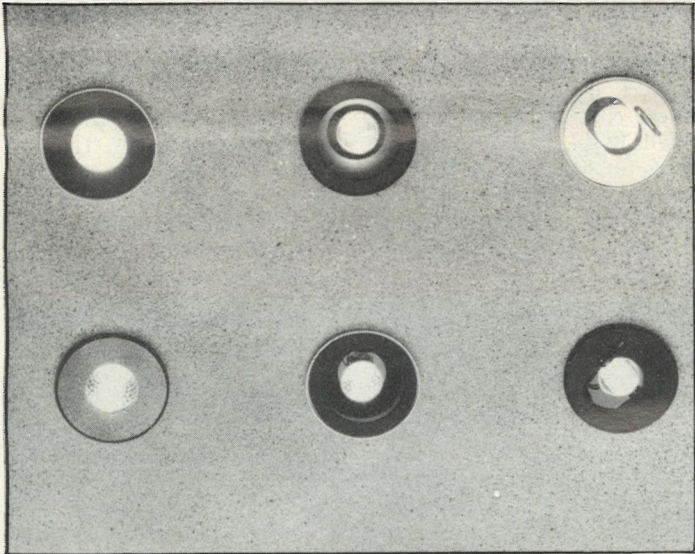
Recessed downlights

Microlights Ltd has a range of four recessed downlights for 12V tungsten halogen lamps. A feature of the Magnit range is that the three fixed fittings have interchangeable bezels in a choice of black, white, chromium or gold colour. The rings are held in place by magnetism.

There are three fixed downlights using dichroic lamps, one of which has a cowl attachment, and a wall washer that is adjustable to 45°.

The fittings are re-lamped from the front.

Reader Service No. 159



Central control for lighting

A central system that controls lighting either through bus wiring or mains signalling has been developed by ECS Energy Conservation Systems Ltd. It can also be linked to building management systems.

The S8000 offers 16 channels of time- and daylight-lined control. Timed switching is programmed using an integral keypad; up to 1184 programs are available.

It can be programmed to take account of British summer time and up to ten holiday periods. **Reader Service No. 162**

LIF LINE

The Lighting Revolution 1969 — onwards

This month as France is proudly flying its 'tricolore' and celebrating the bicentenary of the fall of the Bastille and the beginning of the French Revolution, it may not have occurred to everyone that a less familiar celebration is taking place in Balham. Yes, it's happy bicentennial to the LIF!

But do the comparisons with French history stop there, or can we add that LIF has also undergone a revolution and established its own 'Code Napoléon' or rather a 'Code Eclairage' which now serves as the basis for good lighting practice?

LIF was formed in July 1969 through an amalgamation of Members of the Electric Lamp Industry Council and the Electric Light Fittings Association. These two trade associations had their origins at the turn of the century and must have been two of the oldest electrical trade associations in this country.

Twenty years later, this 'marriage' has produced 85 members who last year enjoyed a collective turnover in the home market of at least £500 million, and exports worth at least £140 million.

Let us consider some of the more recent catalysts that have contributed to this proliferation. Historically, LIF's objectives have always included liaison with government, overseeing the preparation of standards, and promoting the wide-scale benefits of good lighting. As a result, local authority spending on security and street lighting has increased; so too has national media coverage of the campaign.

Moreover, LIF has a long-established commitment to securing the international harmonisation of standards. In this field, it is in fact ahead of most other industry sectors, many of which have still to begin the process. As a result of LIF's commitment to work on IEC standards and its insistence on Members operating to BS 5750 (ISO 9000), it has secured for its fold a strong vantage ground for penetrating foreign markets.

Promoting the benefits of good lighting has consistently been in the forefront of policy although through the years, it has paraded under different banners. Emerging from the 'Light it Better' in 1984, a new quality lighting competition was inaugurated; subsequently the first National Lighting Awards ceremony was held in February 1987.

The Federation's other lighting competition EMILAS, coincides with current environmental concerns. LIF maintains that good lighting is energy-efficient.

Then, LIF took good lighting a step further. In 1985, together with its continental counterparts, it founded the European Lighting Council. During the four years of its existence, the ELC has steadily built up credibility by recognising the serious short-comings of Community lighting standards and declaring this a top priority.

Following the success of the NLA scheme, the ELC followed suit by launching a European lighting competition in 1987. As a result, the EEC is beginning to regard the ELC as a partner for discussion on EEC Directives concerning lighting codes or practice.

Just as it was difficult in 1969 to predict future developments, so it is now in 1989 to forecast what will happen in the next two decades. However, what can be said is that LIF is confident in continuing its 'Code Eclairage', that it is its policy to implement good lighting practice, and it will carry on exploring different ways of achieving this.

Plans for this year include the launch of the results of the lighting and crime surveys carried out in Hammersmith and Fulham, when the Federation will be asking more women MPs to join in its government lobby.

Further lobbying is planned in a major new initiative to reduce the waste of energy in hospitals where there are currently 2 million starterless type fluorescent fittings still in use, in schools and in the defence estate — the latter being guilty of using vast quantities of GLS lamps.

Other developments include a planned policy statement on 'green' issues, with the possibility of liaising with Friends of the Earth; a new LIF fact finder on good lighting of modern offices; a new lamp guide and a 'Lighting Controls and Energy Management Systems' guide.

Imminent on the agenda are of course the third National Lighting Awards, to be held in London on 21 November 1989. Entry forms are available from the LIF, but hurry, the closing date is Friday 11 August!

1992

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MINOLTA

Reader Service No. 4

Winning ways

Energy efficiency means finding the right balance between energy saving and providing good visual conditions; the cut-off point will differ with each application. *LEN* looks at some of the highly commended installations in the recent EMILAS Awards.

Energy management in lighting is not merely concerned with cost saving; a core consideration is that of improving the visual environment.

Recent refurbishment projects show two distinct trends. One route is to reduce energy consumption; the alternative is to keep energy consumption the same but to improve the standard of lighting considerably. The design of most installations fall somewhere between these two extremes.

New build schemes probably provide the best opportunity of showing what modern lighting technology can accomplish. This year's crop of highly commended schemes were no exception, although some installations like that at the Jaguar assembly line posed very difficult lighting problems.

Exacting demands had to be met by the new lighting installation for the audit lines in the number one assembly hall of Jaguar Cars in Coventry. Not only does the installation have to provide glare-free

lighting, it also plays an active part in the paint inspection procedure on the lines.

Prior to the new installation, it was found that cars, after passing through the inspection area, still had defects which had to be picked up at a later stage of inspection. It was clear that a major upgrade of the lighting was the solution.

As a result, 696 Philips TLD 50W HF lamps in twin surface mounted HF luminaires have been installed to create lighting levels of 2500 lux in the horizontal and 1200 lux in the vertical plane over the 770 m² of the two audit lines.

Six continuous rows of low brightness luminaires have been used above the lines and a row of prismatic luminaires has been installed about 1m above the floor on either side of each line.

High frequency lighting has been chosen for its absence of flicker, low energy consumption and high quality light output. The problem of glare has been solved by fitting mirror louvres to the overhead luminaires.

Blemishes

The operatives use the lighting in such a way as to catch the reflection of the luminaire in the paintwork of the car. This uncovers the presence of blemishes on the paintwork.

In addition to local switching the lighting is linked into Jaguar Cars' central computer which turns the lighting on and off at certain times, to coincide with the shifts being worked.

A pagoda-like building situated on the Atlantic Wharf of Cardiff's docklands area houses the new headquarters of the County of South Glamorgan, another highly commended award winner in the new lighting schemes section. Energy efficiency and high quality for all building services were key elements in the original brief.

The 400 m² of office space is lit with 3000 continuous recessed fluorescent Thorn Arena fittings with low brightness louvres which ensure that VDU operators are not hampered by glare or reflections on their screens. A service illuminance of 640 lux is provided. Polylux triphosphor fluorescent tubes have been used for high light output and excellent colour



Assembly line at Jaguar cars.



Low brightness lighting at South Glamorgan.

rendering.

Elsewhere, wall and column mounted uplights provide an indirect lighting system which offers comfortable and shadow free lighting, of particular benefit in the drawing offices. Corridors and office perimeters are lit with over 500 modular Thorn Hyform fittings incorporating the compact fluorescent 2D lamp.

The lighting system is controlled by an ECS energy management system. A central computer sends mains-borne signals to each luminaire, turning them on or off at pre-programmed times. This can then be overridden by local switching so staff have control over their own individual light fittings.

A railway station relit to give a twelvefold increase in illuminance



High light output with low spill at Gresley Rovers' ground.

for three times the lighting load is a scheme worthy of a highly commended award in the commercial section.

A number of years ago Glasgow Central Station concourse, an area of some 21 500 m², was relit as part of a highly successful modernisation programme. But, thirty years later, the 189 twin fluorescent lamp luminaires over the platforms needed replacing and the lighting compared unfavourably with that in the main hall.

The luminaires have now been replaced by Holophone Prismatic fittings, industrial high bay luminaires using 400W high pressure sodium lamps. A prismatic hard glass reflector directs about 25% of the light upwards to reveal detail in the freshly painted steelwork, which now stands out sharply against the glazing. Lighting levels in the platform area have increased from a dismal 18 lux to a generous 230 lux, while the installed lighting load has only gone up from 25.1kW to 69.9kW.

Economies have been made to running costs by the use of photocell control and automatic time switching to each platform to suit night traffic. A manual override accommodates late trains at any platform and is operated by the station staff with the aid of an illuminated mimic panel.

Football

The lighting installation for the football ground of the Gresley Rovers Football Club in Burton-on-Trent was also highly commended in the commercial section. The semi-professional team, playing in a Midlands League, required the ground to be lit to Category 1 standard of the Football Association, giving a lighting level of 160 lux.

The scheme adopted uses sixteen MNF 307 floodlights, fitted with 415V HPI/T metal halide lamps of 2000W and mounted on eight masts at a height of 16m, giving 200 lux on the field.

This is more than double the level before relighting, when a total of 48 tungsten halogen lamps were used, requiring double the current installed load. The MNF 307 floodlights have a much higher light output because the optical system concentrates the light more effectively.

The new installation makes it possible to switch on the lighting on one side only for training purposes and to phase the lighting on one quadrant at a time with a time delay between each switching, thus reducing the maximum demand and sudden voltage drops in the incoming supply.

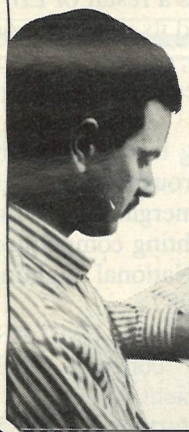
As the ground is in close proximity to private housing, maximum reduction of spill light is essential. In this respect the MNF 307 floodlights were ideal as their optical system provides a very tight beam control.



Glasgow Central station uses high-bay luminaires.

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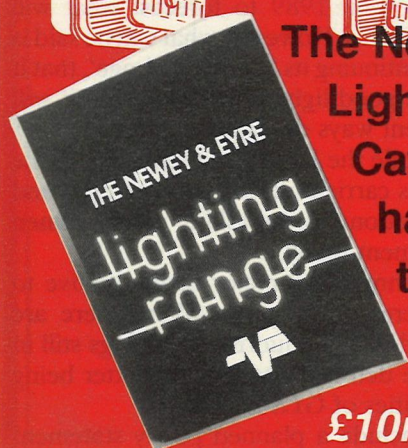
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LEN 1

Centre point

By creatively combining traffic, amenity and decorative lighting, the urban night-time environment can be enhanced. *LEN* reviews outdoor lighting in some European town centres.

The energy crisis of the 1970s led to a reappraisal of the treatment of inner city areas and moved the emphasis from urban redevelopment to town centre conservation. Initially attention was primarily concentrated on the building fabric; more recently lighting has been used in an increasingly creative way to contribute to the overall effect.

Each project requires individual, sympathetic treatment. It needs both an artistic eye to highlight architectural features or other focal points in a scene using a light source of a slightly different colour to the background lighting, and a very practical eye to find the best places to conceal any unsightly equipment.

Multiple use

The lighting of the Esplanade de Port Ligny in Angers, France, is a good example of the problem of town centre lighting where several areas of quite different usage are juxtaposed.

The Esplanade itself is pedestrianised and is dominated by a 12th century chateau and the Cathédrale de St Maurice, however, a two-lane motorway which crosses Angers is close by. In addition, there are public gardens with a footpath that required lighting.

A combination of functional road lighting techniques and decorative effects has been used in a complex but sensitive lighting scheme.

In the main square, prismatic glass spheres are mounted in two- and four-arm arrangements on decorative columns which stand on individual pedestals. These luminaires by Thorn use high pressure sodium lamps within cylindrical louvres to minimise glare and direct 55% of the light downwards.

The motorway passes through a tunnel which is lit by Philips' special tunnel luminaires containing 66W SOX-E low pressure sodium lamps. Philips' 250W high pressure sodium lamps light the visible part of the motorway.

To illuminate the path through the gardens, glass spheres from the

Pilote range by Thorn are mounted on aluminium columns. An integral, cylindrical, aluminium louvre prevents dazzle from the high pressure sodium lamps.

A unified appearance has been created by the lighting throughout these areas of widely varied use.

La Rochelle, an historic town that is a tourist attraction in France, adopted a different approach to its town centre lighting.

Uniform lighting on columns was rejected, mainly because the streets of the old town are so narrow, but also because historic and architectural features of buildings needed highlighting. An indirect road lighting scheme was chosen using Thorn floodlights mounted on buildings.

The luminaires use high pressure sodium SON Deluxe lamps and have an asymmetric reflector with a sharp cut-off, which means that long outreach arms are not necessary. In many cases the fittings are mounted vertically because it was found that this alignment gave better modelling of the architectural detail.

Housings are made of polycarbonate coloured to match the stonework in order to make them unobtrusive.

Indirect light

Light reflected from the buildings provides indirect light for the streets and walkways without glare, creating an ambience in which people enjoy strolling. The lighting complements rather than competes with lit shop windows and café fronts, at the same time drawing attention to the town's architecture.

As part of its policy for improving the urban environment, Westminster City Council recently floodlit St Mary's Church at Paddington Green.

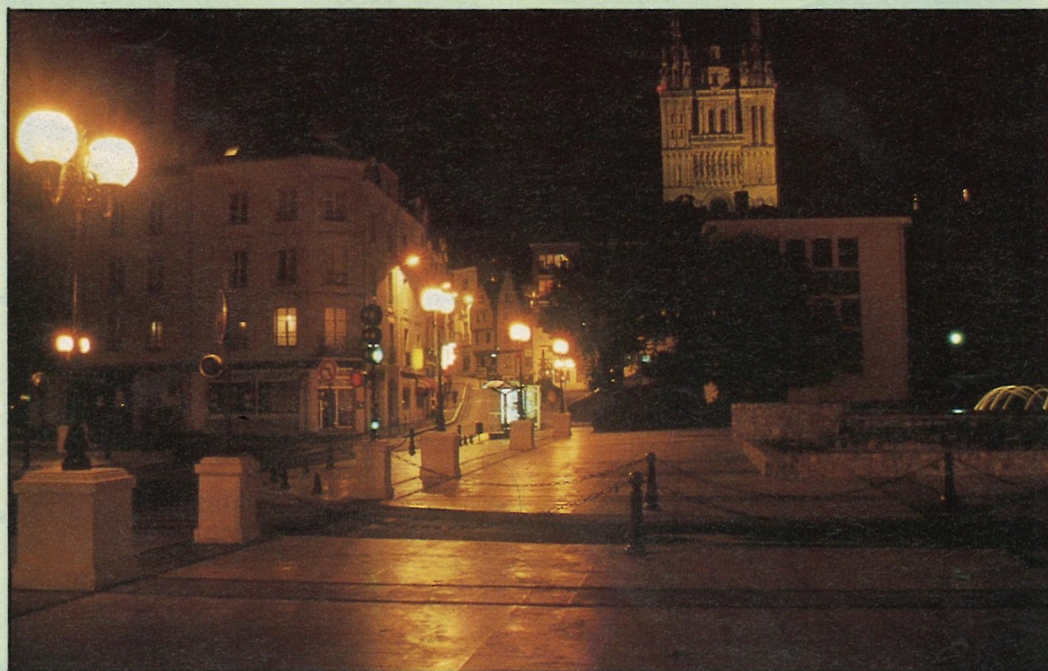
The installation uses a mixture of mercury, mercury iodide and high pressure sodium lamps, mainly in luminaires by Phosco.

Each of the four main façades is lit by one 400W mercury iodide floodlight positioned at ground level and suitably camouflaged in a "boulder".

The main front, together with the east end, is further enhanced by the addition of one 250W tubular high pressure sodium fitting. One of these is mounted on an adjacent lighting column, the other is concealed at ground level in an artificial boulder.

To light the clock tower, four 125W mercury units are used, plus one 70W tubular high pressure sodium fitting at each corner. A 150W mercury iodide projector, also mounted on the nearby lighting column, lights the top of the clock tower on the main viewing side.

A 70W tubular high pressure sodium luminaire in the porch



Esplanade de Port Ligny, Angers.

gives a welcoming light, while the path through the churchyard has been relit with 125W mercury lanterns on traditional style columns.

Total electrical load for this lighting scheme is 3.4kW.

But it is not always local authorities that instigate new lighting. The economic advantages of an attractively lit centre are well understood by the business community. In Scarborough, the popular northern holiday resort, there is

a local lighting committee composed of local tradesmen and hoteliers, and they asked the borough council to floodlight both sides of Marine Road, a major hotel area.

Road lighting is on standard

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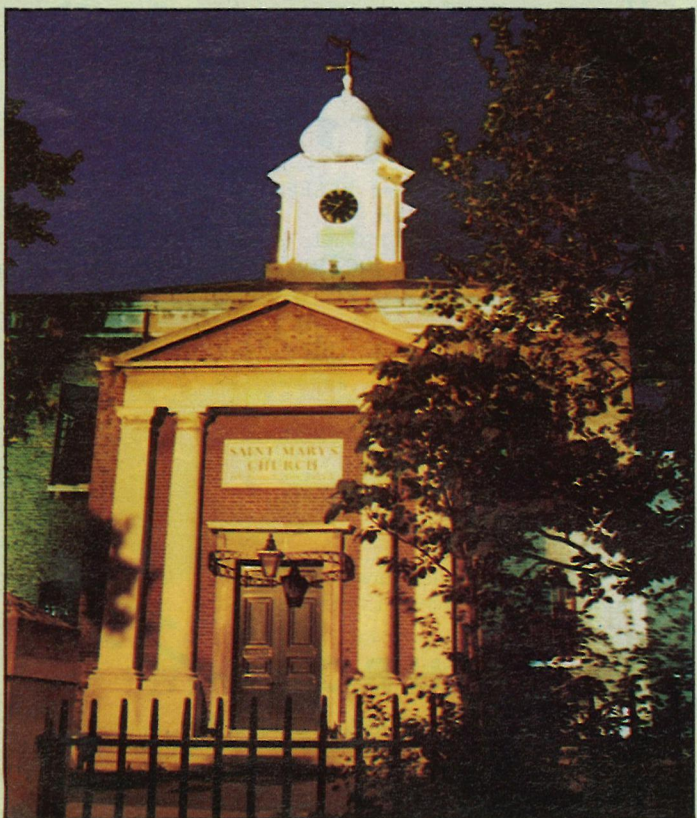
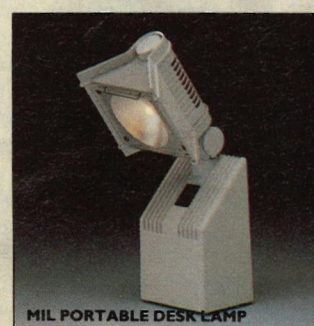
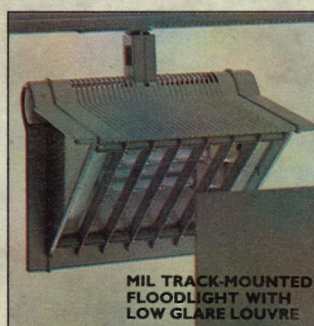
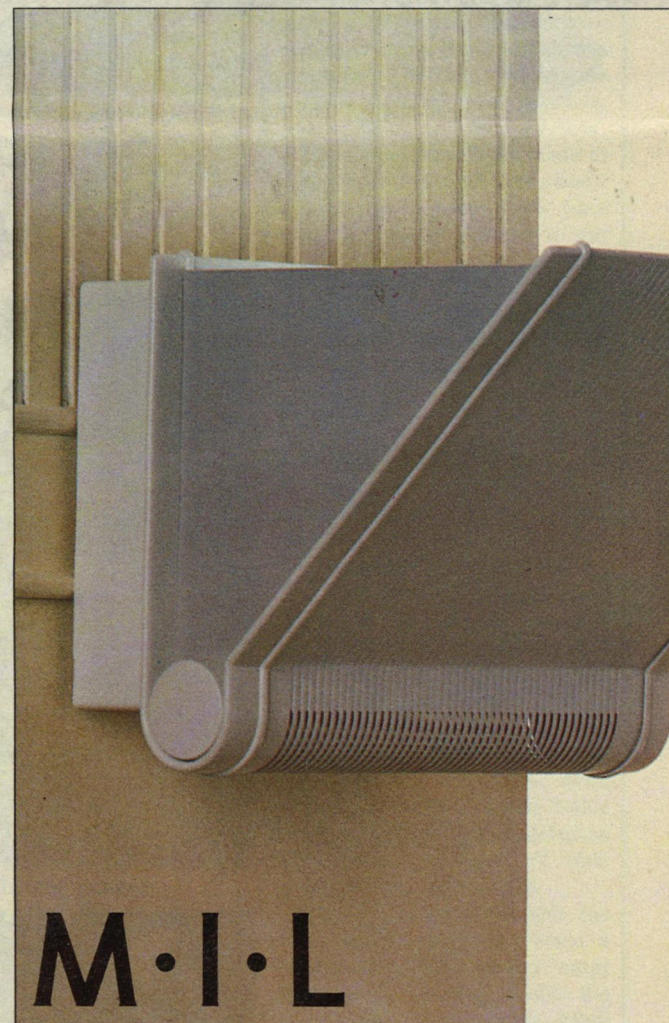
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St Mary's Church, Paddington, London.



Marine Road, Scarborough.

columns, and lighting engineers, Philips Lighting, decided to mount floodlighting on those columns which run down each side of the street. Groups of SNF luminaires were mounted on the columns at 5m from ground level and sited

horizontally across the road to avoid glare to motorists. Those directed to the far side use 250W SON/T lamps, but for lighting the near side lower wattage SON/T lamps are used.

The council coordinated

scheme has greatly improved the appearance of the hotels, providing enhanced amenity and safety for the guests.

In continental Europe, Philips' White SON high pressure sodium lamps are being used in traditional

luminaires to provide amenity lighting.

Applications include the Louvre in Paris: the first White SON lights were fitted at this tourist spot at the end of 1988. The Cour Napoléon, home of the now-famous pyramid (see *LEN*, May 1989), marks the exact location, where previously 70 incandescent lamps provided the illumination. Each unit consumed 300W of electricity and had a life of only 1000 hours; now, the White SON lamps require only 50W to produce high quality light.

In the neighbouring Rue de Rivoli, incandescent lamps have also been replaced by White SON. The effect has been to give this street a far pleasanter atmosphere — not only as a result of the softer lighting, but also because the old fashioned design of the lanterns themselves is much enhanced.

The lamps were first tested by Electricité de France in Paris in co-operation with Philips. Just before Christmas 1988, the lamps could be seen for the first time in the street, where previously they had only been used in shop windows. It is expected that in the future, White SON lamps will be more



Cour Napoléon, at the Louvre, Paris.



A picturesque part of León, Spain.

widely applied in Paris, as old-style lanterns are a common feature of many parts of the city. In this way, lighting will help upgrade the city's image.

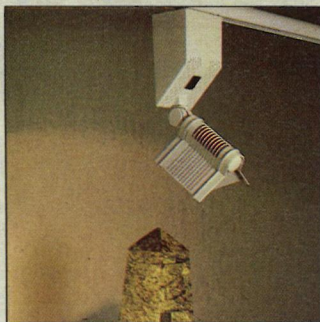
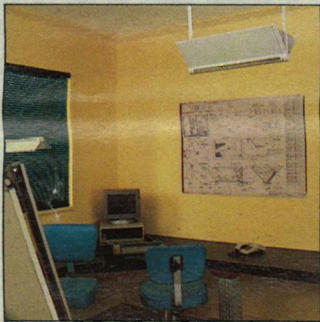
In the city of León, Spain, 800 100W White SON lamps have recently been installed in the Barrio Humedo, the old part of the town. Originally, 125W mercury lamps were used but as they have a cold feel to them, worsened by the fact that temperatures often fall to -20°C in winter, it was decided to

replace them with the White SON lamps.

At first, only 100 lamps were changed. However, the warm effect of White SON received such a positive reaction from local people that the remaining 700 cold blue mercury lamps were replaced soon afterwards.

The old fashioned luminaires — a common feature of the historic parts of many Spanish cities — were retained, as the new lamps help enhance their visual appeal.

Concord



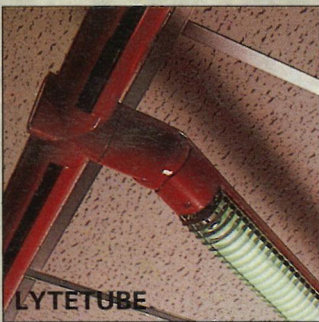
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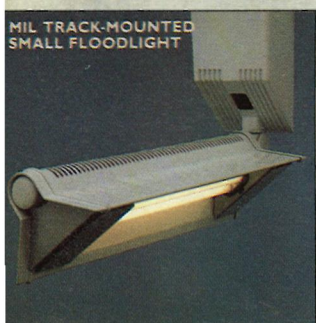


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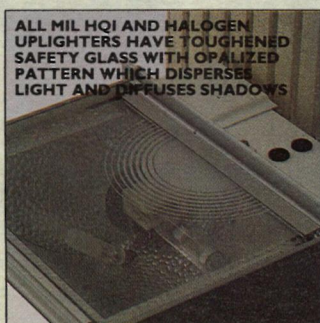
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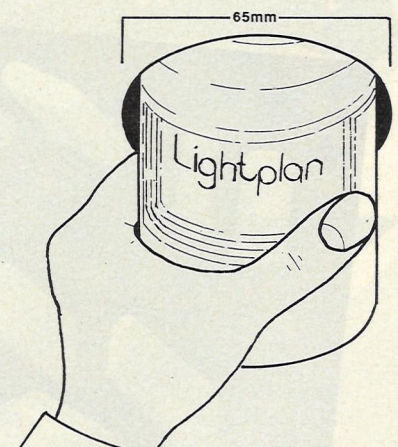


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LETTERS

Managing energy

As a practising Energy Manager (Selfridges Department Store, Oxford Street, London) and as Chairman of the Central London Energy Management Group and Chairman of the National Energy Efficiency Association (to be launched in November 1989), may I thank you for one of the most succinct and perceptive comments concerning lighting and the environment that it has been my pleasure to read (How green is my castle LEN, June 1989).

As with EMILAS, energy management has become very much an environmental matter.

Energy managers operate throughout the area of public service, commerce and industry. The National Energy Efficiency Association is primarily intended to represent the interests of the 8 000 plus energy managers in the UK and to join with other organisations in this field to ensure that this huge and expanding market is exploited in the manner which is so necessary to our country and our environment.

Without electricity, we would still literally be in the dark ages,

but the generation of that same essential facility is a major factor in the development of the "greenhouse effect" and acid rain and yet since the end of Monergy '86, little has been done by the Energy Efficiency Office to bring this matter to the attention of the populace at large.

It is a sobering fact that Britain is considered by the EEC to contribute approximately 7% of the world's atmospheric pollutants.

Although our primary target is in the sector served currently by energy managers, we naturally also are very much concerned by the lack of effort being put into the domestic sector by government agencies. There is a burgeoning body of goodwill in this particular area, exhibiting vast concern over environmental matters. At the last count, some 23% of our cars now use unleaded fuel. No large supermarket chain now operates without including in its range at least some foods grown without the use of man made pesticides and fertilisers because of public demand. Both surely indicate the desire to act if shown how.

Extra effort is being put into this area by organisations such as Neighbourhood Energy Action and Energy Action Scotland and we fully support their efforts in this sector.

To replace a 100 W GLS lamp with a 20 W electronic GLS lamp, (miniature fluorescent), saves 80% of the energy involved. To supply one of these free to every household in the country would cost far less than building a power station of equivalent capacity. Yet we continue to build new generating facilities and ignore the simple solution — energy efficiency.

It is our opinion that with the help of a vigorous energy management movement, industry, commerce and suppliers can all make the commercial sector work but without the domestic sector, we will not meet our targets and as you say, energy savings like charity, must surely begin at home.

M G. Brill
Chairman, National Energy Efficiency Association, London W1.

Lighting Awards

Thank you for giving me the opportunity to react to your July Comment column which took as its subject the 1988/9 National Lighting Awards brochure.

I find it impossible to understand why you should regard the footnote you have quoted as a retrograde step and then go on to surmise that it will cause problems for the assessors and judges. Equally, I cannot understand why you feel forced to query whether such a competition can in any meaningful sense be called 'national', when the geographical restrictions have remained the same ie owners/users of lighting installations in the United Kingdom.

We simply wanted to take the opportunity of the brochure to say a few words about the equipment, (ie luminaires lamps and controls) manufactured by LIF members,

the sale of which generate the money to finance the NLA.

As you can probably imagine from having attended the ceremony last November, when the Duke of Edinburgh presented the awards, the National Lighting Awards, as a whole, cost tens of thousands of pounds to run. The bulk of this cost falls upon the LIF and, therefore, its members. It is probable that in the not-too-distant-future, the whole of the cost will fall to LIF. This being the case, it seems inequitable that the way should be left open for foreign manufacturers, or manufacturers not willing to join the LIF and, therefore, pay towards the cost of the event, to use the National Lighting Awards as a sales vehicle for their own products. Their equipment does not have to feature in a winning scheme for them to be able to do this.

Unless the cost benefit of the investment, which the LIF manufacturers make in the National Lighting Awards, is seen to be equitable in their eyes, they will not be willing to continue funding it, and that would be a great shame given that the awards have been such a successful vehicle in prompting all that is good about modern lighting.

I do agree wholeheartedly with the sentiments expressed in your last paragraph that potential entrants should be encouraged to submit their entries (before the end of August please) and trust in the integrity of the judges. Let me emphasise that in regard to integrity, the LIF has never and will never interfere with the assessing or judging. If it has a point to make, it makes it openly and before the competition begins as it has done in this footnote.

Ernest Magog
Director, Lighting Industry Federation

Dual intensity luminaires

In the final paragraph of his letter, published in your June edition, Mr John Burgess comments on Thorn's contribution to TV lighting and mentions specifically the development of the CP32 dual filament lamp, giving benefits in fast turn-round times in studios.

The idea of having dual intensity luminaires was put forward by the BBC when they were preparing for the introduction of colour television in the mid-60s. The concept of using a single lamp with two filaments, each of 2½ kW, which could be run either singly or together was proposed by Osram-GEC. Development of a practical lamp followed in close collaboration with a luminaire manufacturer, Mole-Richardson (soon to be taken over by Berkey Technical). Colour transmissions started from studios equipped with the Osram-GEC lamp (CP/20),

and a 1¼/1¼kW version, (CP22) was developed for smaller studios. In their initial form neither of these lamps operated on the tungsten halogen principle. At the time of the development there were not even single filament tungsten halogen lamps suitable for use in fresnel spotlights available, and the timescale set by the BBC was very tight.

Thorn introduced their CP/32 about a year later. This was a tungsten halogen design in a quartz bulb, interchangeable with the CP20 and for use in the same luminaires. The Osram-GEC CP/20 was converted to a tungsten halogen design shortly afterwards.

Although there have been some refinements to both lamps and luminaires since, the basic concept has remained unaltered.

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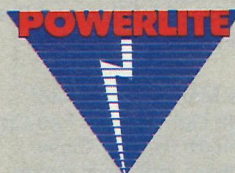
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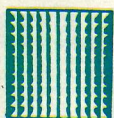
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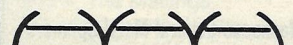
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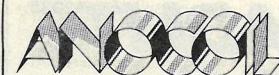
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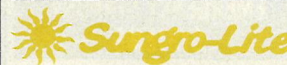
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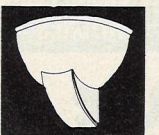
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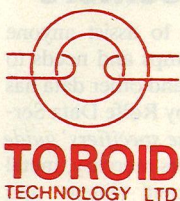
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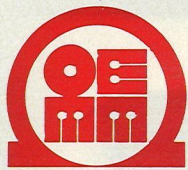
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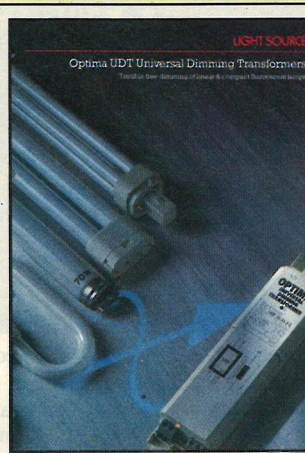
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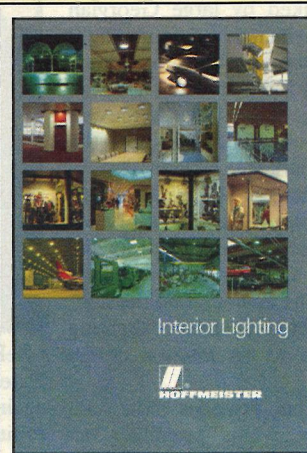
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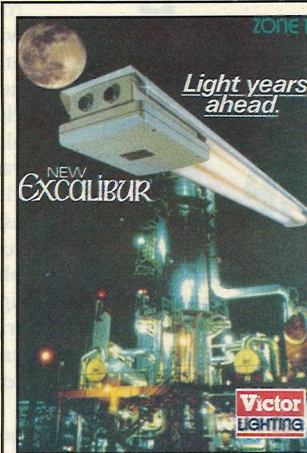
CATALOGUE DIRECTORY



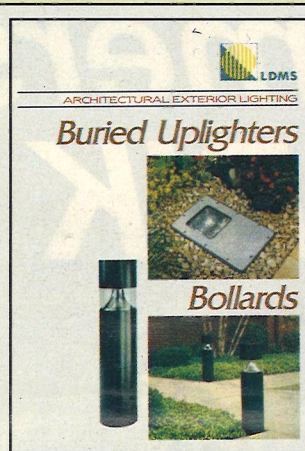
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Source operates T12 and T8
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at any point across the range:
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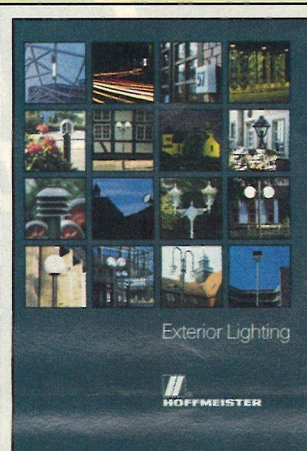
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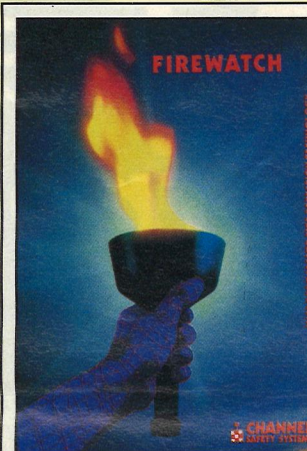
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Modern architectural Bollards
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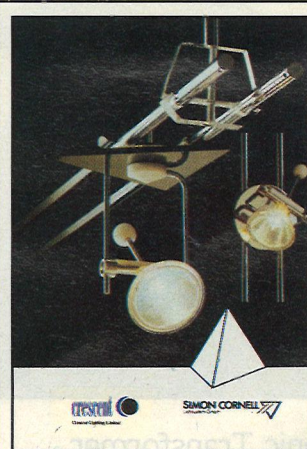
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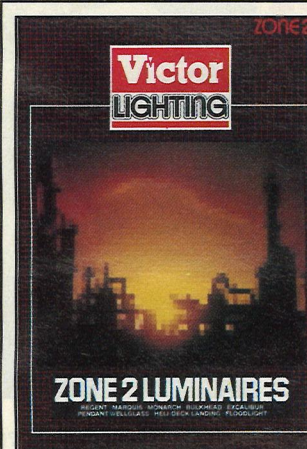
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**No Climb Products produce
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equipment comprising a
series of inter-connecting
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The apparatus saves time and
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**To advertise
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contact Joanne Barker on 01-975 9759 ext 1154.**

Showing off decorative style

A lighting showroom featuring everything from chandeliers to low voltage fittings has been opened by Chelsom in their Blackpool factory and office complex. "We have planned it," says managing director Robert Chelsom, "to take its place among the best that Europe has to offer, and equipped it with every facility to cope with visitors

from the UK and overseas."

The 250 square metre showroom is divided into ten 'style' rooms linked by large Georgian windows which admit natural light and add to the feeling of spaciousness. They follow the major design classifications laid down in the catalogue, with subdivisions into the various market segments: hotels, clubs, pubs, general leisure, domestic and so on. The decor of each room reflects the period of its display, and different finishes to the light fittings demonstrate the contribution that decorative lighting can make to an interior design scheme.

A oak bar provides showroom hospitality while providing an ideal setting for the pub lighting. Another decorative feature is the original door of the shop in which



Chelsom started 42 years ago. Exterior light fittings are displayed against a conservatory in a garden setting.

In addition, the low energy conversion service has its own demonstration area with EL, SL, PL and

2D compact fluorescent lamps fitted to wall brackets for comparison.

Dimmers are installed throughout, and separate switching allows each individual fitting to be assessed for effect.

Guide helps lamp specifiers

A useful guide to assist anyone who specifies lamps and needs to check technical and other data has been produced by Rolfe Data Services. Called *The specifiers' guide to lamps*, it covers mercury, metal halide, fluorescent (linear and compact), high pressure sodium low pressure sodium and tungsten halogen types. It excludes all filament lamps except tungsten halogen.

The guide has been produced from a database of some 1600 lamps and covers the main manufacturers' products used for interior and exterior lighting.

Addresses and telephone numbers for ordering are listed in an appendix.

Included in the 15 column headings of the guide are lamp watts, manufacturers' catalogue reference, cap, nominal length and width, burning position, colour temperature, initial and lighting design lumens and trade price.

The guide, which has been compiled by Paul Rolfe, previously secretary to the Lighting Division of the Chartered Institution of Building Services Engineers, is to be updated at regular intervals.

Price including free update sheets for one year, and postage and packing, is £65. Copies can be ordered from Rolfe Data Services, 22 Haredon Close, London SE23 3TG.

Industrial safety needs tightening

Launching the Health and Safety Commission's *Plan of work for 1989-90 and beyond*, chairman Dr John Cullen said, "Our prime task as ever must be to encourage industry by every available means to improve its safety performance."

Many parts of British industry have a good safety record, but studies of major disasters, or

smaller incidents causing death or serious injury, too often reveal a lamentable lack of precaution, a significant management failure to plan to meet risks.

Financial provision has been agreed by the government to enable inspection and enforcement to be increased in each of the next three years.

Dr Cullen concluded by saying that the Commission and industry needed to work more closely together as the European Year of Health and Safety, 1992, approached.

Lighting division change

David Loe has been elected Chairman of the Lighting Division of CIBSE; he took office at the Division's AGM on 3 May.

David Loe, MPhil, FCIBSE, MIES, is Director of the International Philips Centre for Lighting Education and Research at the Bartlett School of Architecture and Planning, University College London, where he runs an MSc course in Light and Lighting.

Two areas of particular interest and concern are, naturally enough, the continuing growth and development of lighting education and the provision of adequate funding for research projects. "The importance of these two aspects cannot be over emphasised if we are to maintain our position in the vanguard of lighting design, expertise and product development" Mr Loe told *LEN*.

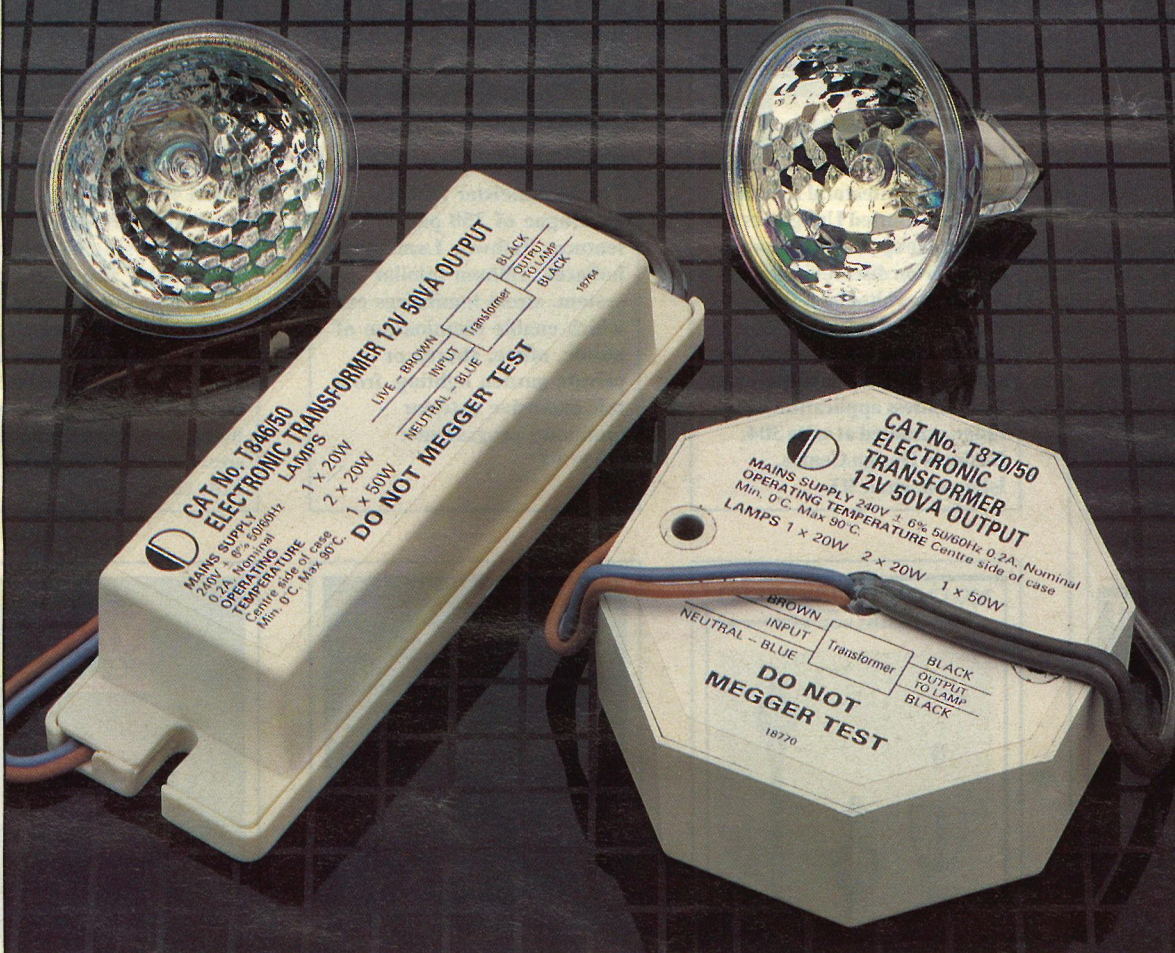
IN YOUR NEXT ISSUE

Office lighting is the major theme of the September issue of *LEN*. While energy efficiency calls for centralised switching, both social factors and the need for flexibility are increasingly dictating individ-

ual control of the environment.

Both trends are altering our simplistic view of providing even — and boring — fluorescent lighting throughout the office floor. The results may prove exciting.

New Electronic Transformers from ORBIK



The new Electronic Transformer from OrbiK is an advanced design, high technology electronic transformer available in 20W/50W and 35W/75W versions.

The units are specifically designed to be lightweight (approximately 83% lighter than a conventional 50VA transformer) and extremely compact.

SPECIAL FEATURES

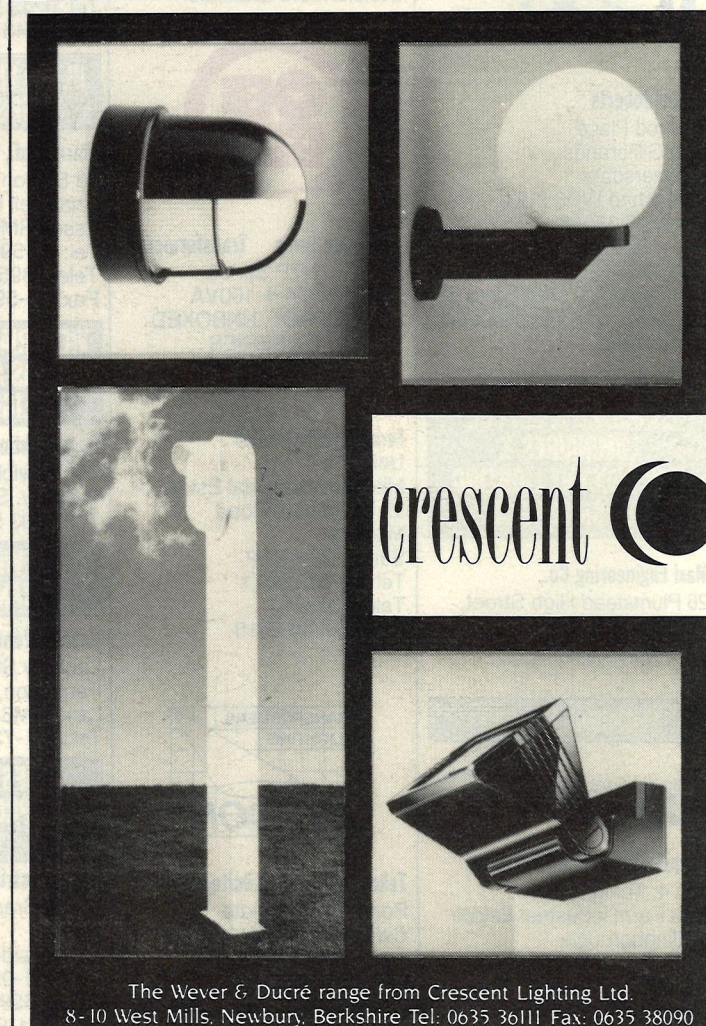
- Low power consumption
- Capable of operating at high temperatures (Maximum case temperature 90°C)
- Soft Start feature, to prolong lamp life
- Overload and short circuit protected
- R.F.I. suppressed
- Transient Protected
- Dimmable
- 100% Burn in tests

Compared with a conventional transformer the ORBIK ELECTRONIC TRANSFORMER outshines the rest.

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