



FriarsMarketing



Commercial Lighting Services

About Us

Friars Marketing have been supplying airfield ground lighting and commercial lighting goods and services to customers worldwide for over a decade. From our two strategic locations in Market Harborough and Coventry (UK) we continue to provide the best technical support and advice to airport and commercial clients.

With the introduction of energy efficient lighting Friars Marketing can supply the complete range of **Osram** equipment.

Customer Service: Attention to detail, prompt response times and competitive pricing are all part of our commitment to our customers.

Client List

- Aqualuce • Belfast City Airport • Belfast International Airport • Blackpool Airport • Birmingham Airport • Bournemouth Airport • British Aerospace • British Airports Authority – BAA • Cambridge Airport • Carlisle Airport • Cork Airport • Coventry Airport • City of Derry Airport • Cranfield Airport • Eutex inc (Houston) • Doncaster Sheffield Airport • Exced • Exeter Airport • Galway Airport • Gem A • Gloucester Airport • Goodwood Aerodrome • Indutec • International Lamps • Jersey Airport • Kenyan Airports Authority – KAA • Knock International Airport • Leicester Aero Club • Leeds Bradford International Airport • Lightplan • Liverpool John Lennon Airport • London City Airport • London Luton Airport • Manchester Airport • Mitel Broadband • Norwich Airport • East Midlands Airport • Oxford Airport • PCA – Saudi Arabia • Plymouth City Airport • Qinetiq – Estates Management • Ronaldsway Airport – Isle of Man • Ruby Electrical Trading • Sartra International • Shannon Airport • Sligo Airport • Speirs and Major Associates • States Airport – Guernsey • States Airport – Guernsey for Alderney • Teesside International Airport • Thorn Airfield Lighting Group • Turkish MOD • Valencia Airport • Waterford Airport • West London Aero Club •

General Lighting

The German clockmaker Johann Heinrich Goebel invented the incandescent lamp in 1854. Thomas Edison developed the concept and turned it into a useable product in 1879. For many years artificial light hung by a delicate carbon thread, now replaced by a stronger metal filament. Lamps have undergone a process of continual improvement; new ways of generating light have been invented and new materials have been used.

The light from an incandescent lamp is produced with the aid of an electrical current that causes the metal filament to glow. Around five percent of the electrical energy is converted into light, the rest is given off to the environment as heat.

Tungsten Halogen Lamps

Halogen lamps are approximately 100 percent brighter than conventional lamps. They give surfaces a scintillating shine and provide an enchanting effect as the spectral colours shimmer in the reflections. No wonder that halogen lamps are so popular amongst interior designers!

Halogen lamps can last up to four times as long as conventional incandescent lamps, and are used in a wide variety of applications. They are available in mains and low voltage versions.

Adding halogen turns conventional incandescent lamps into halogen lamps. Their brilliant light has a much higher luminous intensity. Things simply look better in it.

HSR Lamp



GLS Lamp



Xenon Short ARC Lamps

Compact Fluorescent Lamps

Compact fluorescent lamps are the bright alternative to ordinary light bulbs. They can reduce electricity costs by up to 80 percent compared with incandescent bulbs of the same brightness and can last up to fifteen times as long.

Compact fluorescent lamps can be used in:

- Restaurants • Hotels • Offices • Corridors • Homes • Etc.

Another key feature: • Low power consumption and long life = Kind to the Environment •

You can use compact fluorescent lamps with the classic bulb shape wherever you previously had ordinary light bulbs. They provide a particularly soft glare-free light.

Fluorescent Lamps

Fluorescent lamps produce 70 percent of artificial light throughout the world. For economical reasons they are the first choice for many applications because they combine high luminous efficacy with less power consumption.

With their special properties, fluorescent lamps have conquered every area in which artificial light is used, including: Hospitals • Factories • Offices • Homes • Etc.

Another key feature: • Low power consumption and long life = Kind to the Environment •

A fluorescent lamp needs only around one fifth of the electricity that an incandescent lamp needs. The average life is 12,000 hours, whereas an ordinary light bulb will last about 1,000 hours.



Linear Light Flex LED



Linear Light LED



Coin Light LED

Discharge Lamps

High pressure discharge lamps differ from incandescent lamps in the way which they produce light. They are very efficient because they generate an extremely high luminous flux in a very small space. For example, a 2000W metal halide lamp, such as the ones installed in football stadium floodlights, produces as much light as two 5000W incandescent lamps. The area in which the light is produced is no larger than a 2 euro coin.

Discharge lamps can be used in: Shop Windows • Display Cabinets • Sports Stadiums • Factories • Horticultural Lighting • Street Lighting • Etc.

Special Lamps

Special lamps differ from their counterparts in normal lighting in that they have a special spectral power distribution with most of their energy concentrated at the infra-red or UV end of the spectrum.

This range of lamps from Osram can be used for: Curing • Drying • Thermoforming • Artificial Ageing • Sterilisation • Etc.

There are also a number of classic industrial applications for light which would be impossible without these special lamps, including: Exposure of Film Material and Printing Plates • Exposure of Photo-Resist Material in the Manufacturing Process of Printed Circuit Boards • Fluorescence Excitation for Material Analysis •

Linear Light LED



HSD Lamp



Compact Fluorescent

Display/Signal Lamps

Road and Rail Traffic Signal installations lamps have to meet extremely high standards and demands including the following:

- Precise alignment and shape for correct intensity distribution
- Standardised high quality bases for precise re-alignment of replaced lamps
- Long life
- High luminous flux for good signalling effect and high recognition in all weather conditions

Lamp types available:

Krypton Lamps for Mains Voltages • Low Voltage High Pressure Lamps • Low Voltage Halogen Lamps • Dichroic Reflector Lamps for use in Fibre Optic Matrix Displays •

Automotive

Osram is the world's leading manufacturer of automotive bulbs and a major supplier to vehicle manufacturers worldwide. Osram's cutting-edge product range offers everything from the standard halogen headlight bulb to the very latest Xenarc® High Intensity Discharge technology.

Friars Marketing supplies OE quality bulbs into the replacement bulb market. The same high-quality product range that is supplied to car manufacturers is available in the aftermarket.

Applications include: Headlights • Signal Lights • Upgrade Bulbs • The new Diadem turn signal lamp.

Entertainment Lamps

Entertainment lamps from Osram offer a wide variety of applications including: Architectural and effect lighting • Projected advertising • TV studios • Film sets • Theatres • Event and nightclub lighting • Trade fair and exhibition lighting • Etc.

Lamp types available: 4ArXS HSD® innovative single ended Metal Halide lamp • 4ArXS HCD® ceramic Metal Halide lamp using eXtreme-seal technology •

Other Metal Halide lamps available: VIP® • HTI® • HMI® • HMP® • HSR® •

- aluPAR™ with its aluminium reflector for efficient and creative lighting
- XBO® Xenon short arc lamps • HBO® Mercury short arc lamps •

LED Modules

Light Emitting Diodes are based on semi-conductors that convert electrical current directly into light. They emit coloured light in • Red • Orange • Yellow • Green • Blue • White light is generated with LED technology.

LEDs give designers an immense amount of freedom to create innovative lighting. Their wide range of colours, compact dimensions and the versatility of the different modules all contribute to this. Apart from their decorative characteristics, LED's offer: Low power consumption • Low maintenance and operating costs • Long life span.

Electronic Control Gear

Light that is produced with the aid of electronic control gear is flicker free. There is virtually no hum from the control gear and lamps start without the usual flicker. The use of ECG allows people to work for long periods without tiring or losing concentration.

ECG are now intelligent

The latest technological developments enables the manufacture of ECG with its own intelligence. This means that a MULTIWATT ECG not only operates lamps perfectly but can also operate two different lamps at the same time.



Discharge Lamp



Decostar



Fluorescent Tube



HQV Lamp



Traffic Signal Lamp



High Pressure Sodium



Halolux Mains Voltage Lamp



Siccatherm Infrared Lamp

 **FriarsMarketing**



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If you would like to receive a copy of our '**Airfield Lighting Services**' brochure,
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