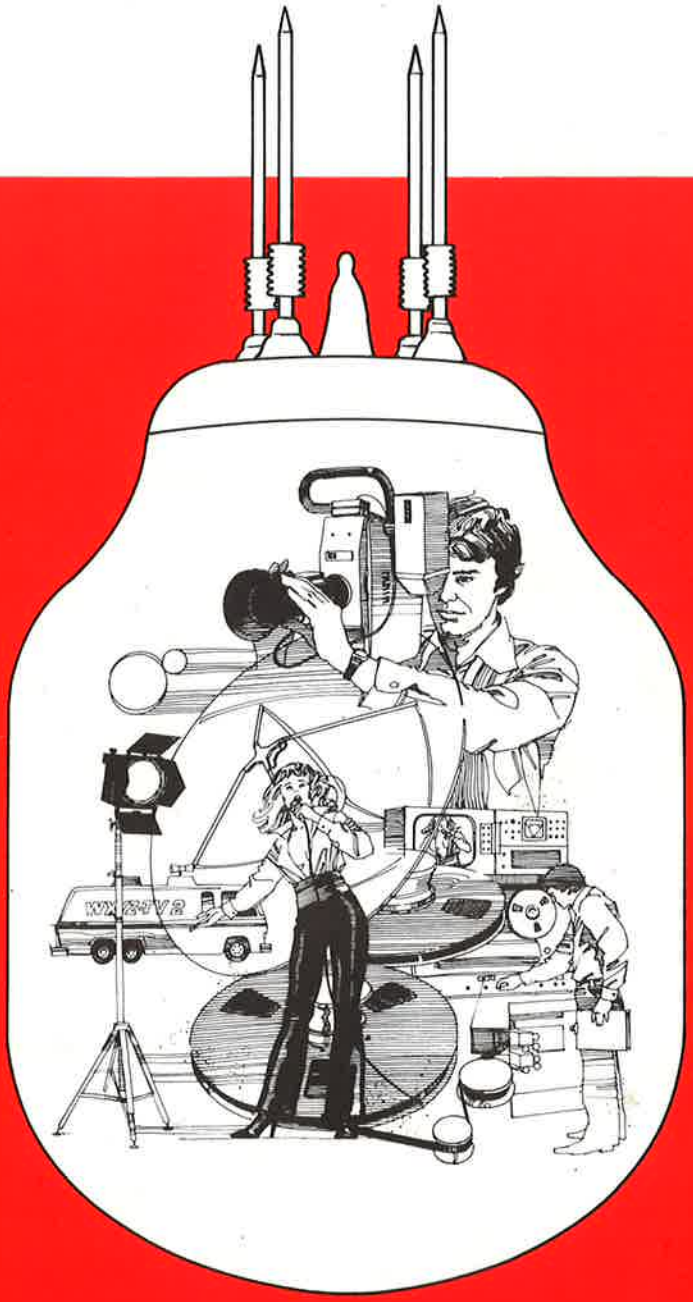
GEC

STUDIO · THEATRE · LOCATION
lighting

photokina '84



NEW PRODUCTS FROM GEC

STUDIO LIGHTING

STUDIO LAMPS WITH FLEXI-PINS

The CP range of Studio Lamps is designed for 3200K applications in film and television studios.

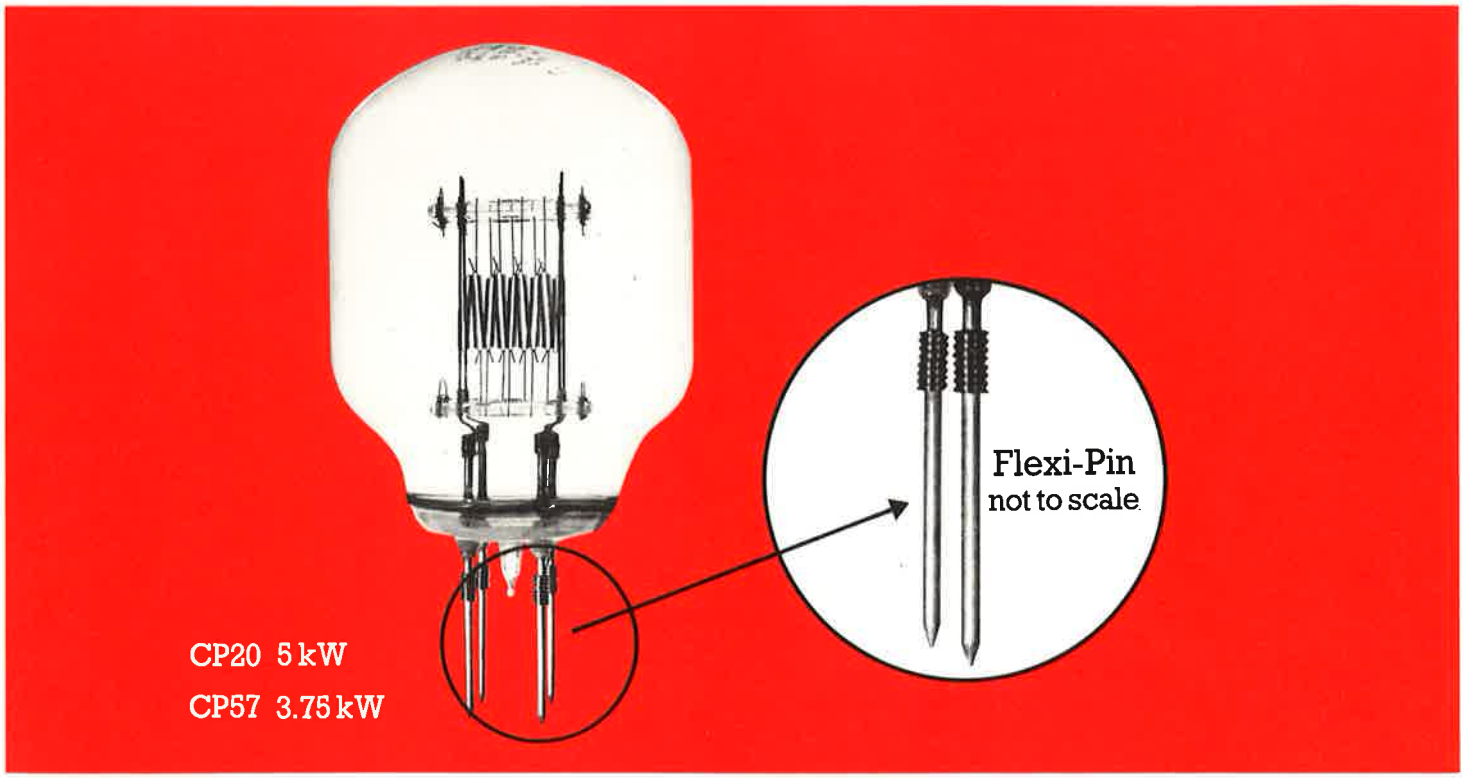
In this range there are two types of lamps – Quartz Halogen and Hard Glass Halogen.
The Hard Glass constructions are used for the higher wattage lamps (i.e. above 2kW), and give virtually 100% lumen and colour temperature maintenance throughout life.

GEC now announce an important new advance for giving a more reliable performance to twin filament studio lamps, with the introduction of the flexible pin principle.

These new "Flexi-Pins" will automatically align with the individual sockets in the lampholder, helping to ensure good electrical and mechanical contact, but most important, will substantially reduce stresses in the lamp base.

CP20

GEC introduced the concept of individually switchable twin filament studio lamps in 1966 for the launch of BBC colour T.V. with the CP20 5 kW (2.5 kW/2.5 kW) lamp.



When used on a dimmer circuit and switched from two filaments to one it is possible to lower light output down to 30% of maximum before falling outside the normal colour temperature tolerance of modern T.V. cameras.

CP57

The CP57 is a triple wattage twin filament lamp rated at 3.75 kW (1.25 kW/2.5 kW) primarily for use with the latest high sensitivity colour cameras. It provides 1.25, 2.5 and 3.75 kW by running the filaments singly or together.

When used on a dimmer circuit and switched from two filaments to one it is possible to lower light output down to 20% of maximum before falling outside the normal colour temperature tolerance of modern T.V. cameras.

The CP57 with its 'three in one' switching capability offers the T.V. lighting director total lighting flexibility.

LOCATION LIGHTING

MEI COOLSEAL

GEC first started manufacturing standard MEI lamps about seven years ago but introduced an important new dimension – the Coolseal principle – in 1982. One of the main problems associated with the standard MEI/HMI lamps was that of heat, particularly overheating of the molybdenum quartz seal within the end caps. Arcing between the cap and holder added to this overheating and caused early lamp failure. Furthermore, the rigid support system for the holders often led to mechanical stress on the lamp with a consequently high breakage rate.

The Coolseal development drastically reduces the temperature at the end of the molybdenum seal, which increases the life of the lamp. The surface of the seals is etched so that the heat which normally travels along the seal by the 'light pipe' effect is dispersed.

MEI Coolseal with flying leads

As a result of the Coolseal development and the consequent reduction of temperature at each end seal, the need for expensive cooling fins has been eliminated and the MEI lamp may now be held in position by simple clips fixed to a flexible mounting which helps to protect it if the luminaire is dropped. The lamp caps

have been removed and replaced by flying leads so that the electrical contacts can be made in a low temperature area of the luminaire away from the end seal.

Quite apart from the advantages of the new lamp in terms of maintenance and lamp life, it is also easier to handle. The lightweight sprung clip holders avoid mechanical damage when the luminaire is being handled on location or during transit. The flying lead principle, originally devised for the 8 kW lamp, is now standard for 575W, 1200W, 2500W and 4000W.

8 kW

The 8 kilowatt linear metal halide lamp is the first light source capable of replacing the traditional Brute carbon arc lamp. It has been designed for infill lighting in daylight conditions to simulate daylight during outside broadcasts and for special effect lighting in film and TV studios.

The lamp has a 'daylight' colour temperature of 5600K, operates at 52 amps and runs on AC supply.

The first luminaire with its flicker-free electronic square wave control gear has already been designed by Lee International working closely with GEC. Lee has cleverly exploited the advantages of the new lamp to produce a complete lighting unit weighing about half of the Brute arc.

THE RANGE

STUDIO

CLASS CP

CLASS P2

THEATRE

QUARTZ HALOGEN

NON-HALOGEN

MEI COOLSEAL

LOCATION

MEI COOLSEAL WITH FLYING LEADS

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