



Freedom

Lighting the Way

The Freedom range brings you a uniquely flexible approach to lighting; with numerous interchangeable options and cutting edge technology, this complete lighting system can be tailored to your needs like no other.

CCT LIGHTING



650w Condenser
600w with 20-40 lenstube
800w with 15-32 lenstube

Freedom

>> In an ideal world you would be able to tailor your lighting system to each and every function it is called upon to provide. Whether it be constant touring or strings of different productions, your lighting system would be flexible enough to do the job - in environments, which can range from a school hall to an opera house! But most systems, by design, are inflexible and as a consequence tend to constrain creativity - the essence of good lighting design.

Welcome to an ideal world with The Freedom range from CCT Lighting. These award winning state-of-the-art international luminaires give you the flexibility and choice to create outstanding lighting effects, without many of the restrictions associated with traditional fixtures. With it's numerous interchangeable options and cutting edge technology the Freedom range can be tailored to your needs like no other lighting system.

Awarded 'Product of the Year 1996' by The Association of British Theatre Technicians and the PLASA 'Award for Product Excellence 1996 - Highly Commended', the Freedom range encompasses a spectrum of features creating the ultimate in flexible lighting systems.



800w Freedom
with 15-32 lenstube

ABTT
PRODUCT OF
THE YEAR 1996



tailored to your needs



Freble Fresnel with Barndoor
Freble Pebble Convex



600w Freedom
with 15-32 lenstube

Freedom Features and Benefits

Unique Freedom

- **An integrated system combining lamphouse, lenstubes, optional DMX dimmers and Lanterns together -**
creates total flexibility, total freedom
- **Fuseless direct current dimmer with Local Proportional Control (patent pending) -**
allows you to control numerous lanterns with unlimited power
- **Fresnel and Pebble Convex Luminaire with interchangeable lens units -**
see installation and creativity for associated benefits

Creative Freedom

- **Interchangeable/changeable lenstubes providing fixed and variable beam angles (7° - 58°) -**
giving outstanding flexibility of beam
- **Reversible, removable, rotating shutter blades -**
so that any shutter angle can be obtained
- **Facility to turn channel controls into group controls with Local Proportional Control -**
extending the flexibility and capacity of your control board
- **Individual lens adjustment -**
gives greater flexibility of beam angle, hard and soft focus achieved
- **The optical systems provide great depth of field and image clarity -**
ensuring Gobos stay in focus regardless of the projection angle

Freedom of Installation

- **No dimmer room or radial wiring required, just ring mains or spurs and DMX -**
ensuring flexibility of location and reduced installation costs
- **Can be added to your existing installation, as 5 Freedom 600w units require only a 13 amp socket, while 6 Freedom 600w units run from a 16 amp supply -**
so it's easy to use as an add on; cuts rigging, set-up time and cost - ideal for touring

Freedom with Efficiency

- **High efficiency axial and base down lamphouses -**
means more light for less money
- **Energy saving lamps -**
giving the equivalent output of traditional 1kW and 2kW units but with lower energy consumption
- **Local Proportional Control -**
extends lamp life
- **Durable construction with ease of maintenance**

Freedom with Safety

- **Luminaires and dimmers marked and tested to EN standards**
- **Automatic disconnection from power supply**

Freedom System

The following components can be combined without restriction to create your own individual lighting system.

600w Lamphouse

800w Lamphouse

650w Condenser Lamphouse and

2 Special Lenstubes: 16° - 38° and 40° - 53°

20° Fixed Beam Angle Lenstube

30° Fixed Beam Angle Lenstube

40° Fixed Beam Angle Lenstube

50° Fixed Beam Angle Lenstube

7° - 17° Variable Beam Angle Lenstube

15° - 32° Variable Beam Angle Lenstube

20° - 40° Variable Beam Angle Lenstube

28° - 58° Variable Beam Angle Lenstube

230v - 240v Electronic Dimmer

110v - 120v Electronic Dimmer

Fresnel Lensed 'Freble'

Soft Edge Luminaire

6° - 50° Beam Angle

Pebble Convex lensed 'Freble'

Defined Soft Edge Luminaire

8° - 31° Beam Angle

» Freedom

600w and 800w Reflector Optics

Technical Freedom

600w and 800w Lamphouse

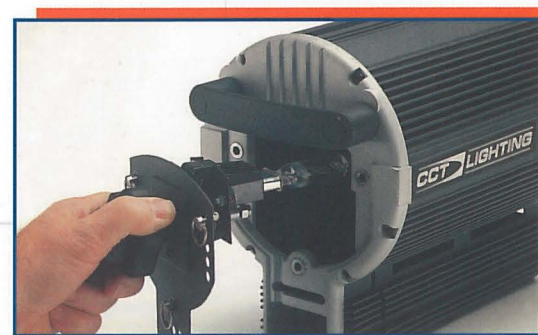
- Lamp Tray removal automatically disconnects from the mains supply or dimmer (if fitted)
- Large locking knob and square plate allows centre positioning of the lamp filament
- Peak - Flat - Cosine adjustment of the lit field by smaller rear knob
- Two position hoop mounting point - where the overall height needs to be reduced
- Reversible cantilevered hoop, to aid balance and allow easy change from hanging positions to stands
- Dimmer slides onto the underside of the Lamphouse on two keyways

Exclusive to the 800w Freedom

- A heavy duty lampholder with integral and external Heatsink keeps the lampseal within the recommended temperature levels

General Features

- All operating knobs and handles remain cool during extended use
- Double track bayonet fitting allows the Lenstube lugs to fit in only one position, indicated by raised lands on the lenstube and lamphouse. The safety and locking screws fit between the tracks for added safety



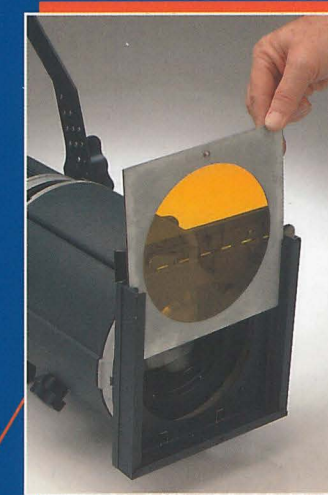
Lamp removal



Optional dimmer slide



Mating lamphouse and lenstube



Colour frame and cassette



Lens cleaning door

Shutter Set

- Superb Shutter set with removable, reversible, black shutter blades, held in position by springs which keep all the shutters within 1mm of the centre plate, allowing all blades to be in focus at the same time
- Gate accessories retained by mating button and hole for light weight items or safety bond and clip



Locked in position by side thumb screw

Lamp bases are G 9.5's to fit the TP22 lamp holders with a Grid or Coiled Coil filament

Lamps for the 600w Luminaire

Lamp Code	Wattage	Voltage	Light Output	Lamp Life
GKV	600w	240v	14,000 lumens	300Hr
GKV	600w	230v	14,000 lumens	300Hr
FLK	575w	115v	16,500 lumens	300Hr
HX 400	400w	115/120v	10,000 lumens	300Hr
HX 401	400w	115/120v	8,500 lumens	1,500Hr
HX 601	575w	115/120v	12,800 lumens	1,500Hr
HX 602	575w	115v	18,000 lumens	300Hr
HX 603	575w	115/120v	15,000 lumens	1,500Hr

Available from GE Philips and Osram

Lamps for the 800w Luminaire

Lamp Code	Wattage	Voltage	Light Output	Lamp Life
HX 800	800w	240v	20,000 lumens	250Hr
HX 800	800w	230v	20,000 lumens	250Hr
HX 800	800w	115/120v	22,000 lumens	250Hr

800w

>> Freedom

650w Condenser Optics

The 650w Condenser Units have all the freedom features of the 600w/800w range plus-

Freedom of Choice

- Two Choices -
 - 1) The 650w with the Freedom Dimmer underneath
 - 2) The 650w with the shortest lamphouse in the Freedom range - for those tight spaces. This can still have the Freedom Dimmer but it would be mounted on the Yoke

Creative Freedom

- The double lens condenser system gives crisp projection of Gobos both glass and metal
- Hard or soft focus is easily achieved with the range of fixed focus lenstubes
- Two special variable beam lenstubes with coated lenses give unsurpassed beam quality. Beam angles of 16°- 38° and 40°- 53°

Technical Freedom

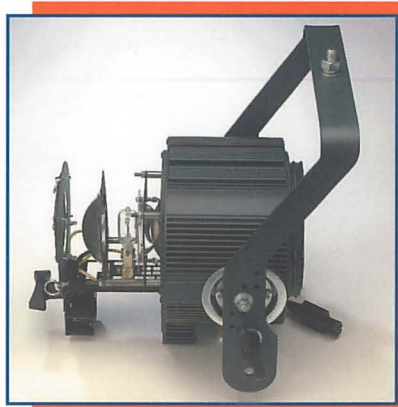
- Unique 'Pull Out' lamp change system which disconnects from the power supply or dimmer (if fitted) for lamp and cleaning of condenser lenses

Freedom with Efficiency

- While sharing all the benefits of the 600w and 800w units this uses the proven base down 650w T27 lamp with a 750 hour life



650w Condenser pair



650w Condenser short lamp change

Freedom Freble

The Freedom Freble shares most of the features of the 600w/800w profile range and takes the Freedom Dimmer.

Freedom of Choice

- Lamphouse: 2 lenses
 - Fresnel
 - Pebble Convex
 (Both are easily interchangeable)

Creative Freedom

- If a Fresnel gives too much spill light, switch to the cleaner beam of a Pebble Convex



"Freble" Fresnel

Technical Freedom

- Fresnel beam angle: 6°- 50°
- Pebble Convex beam angle: 8°- 31°
- Positive lead screw focus

Freedom with Safety

- When the lens turret is removed the spring loaded worm-drive operates a micro-switch to allow safe lamp change access

(For details on the lamp range for the Freedom Freble please refer to 600w table, on page 4).



"Freble" Pebble

>> Freedom Dimmer

The dimmer range covers ratings from 60w to 2300w and can be mounted under the Freedom luminaires - on wall or wired bars - and on most other luminaires with the yoke mounting plate. Both dimmers incorporate the following benefits in addition to their specific features (detailed below) -

- The flexibility of your control board can be extended, by giving a group of luminaires the same DMX address and then balancing the individual luminaire output, using the Local Proportional Control switch to 'top set' the maximum light output
- A soft start facility reduces power surge on start-up and an in-built preheat facility (not optically visible) helps extend lamp life
- The dimmers are provided with CEE 22 power input and output plugs and a 5 Pin XLR plug and socket for DMX 512 control. These units can therefore be used anywhere there is a power supply - even on a domestic circuit
- If the DMX 512 is not available then local control is possible using the 16 step (each step is a 6% difference) Local Proportional Control with the DMX address set to zero
- Lamp life can be doubled by reducing output one step on the Local Proportional Control

Freedom Dimmer for Fixtures up to 4 amps

This dimmer is designed for the Freedom range and any other luminaire up to 4 amps.

Technical Freedom

- Each dimmer has LED indicators to show that power and DMX signal is present
- The dimmer is practically silent in operation and produces no interference with sound equipment
- The dimmer output is a form of Direct Current - this eliminates 'Lamp Sing' and extends lamp life

Freedom with Safety

- This fuseless unit is protected against overload and short circuits by a fast acting sensor which shuts down to protect the Mosfet device. When the condition is removed operation returns
- Dimmers meet all EMC and EN directives



Dimmer with yoke and wall mount plates

Freedom Dimmer for Fixtures up to 10 amps

This dimmer is designed for single, high power luminaires or a combination of low wattage luminaires up to a total load of 10 amps and has 2 CEE 22 outlets on the back.

Freedom of Installation

- You can enhance the flexibility of your lighting system, by adding a luminaire to your existing rig and hanging this dimmer adjacent to it

10 amp Switch Box

This unit is the same size as the 10 amp dimmer and allows remote switching of power supplies by the DMX address. This can also be used for special effects e.g. UV strips, motorised effects discs or devices which can be damaged on a dimmed supply.



10 amp Dimmer and Freedom Dimmer

Freedom in Practice

Of course, we believe that the Freedom range is truly outstanding, but don't just take our word for it, see what some of our customers have to say...

"The Freedom Luminaire arrangement saved us thousands of pounds on installation costs and provided more flexibility of operation in environments ranging from an amphitheatre to village halls - Great Product!"

Steve Jones, BJAD Consulting Engineers to Strode Park Foundation - Theatre in the Park

"When CCT bragged about the light output of their new Freedom range I was very sceptical, but seeing is believing! After the on site demonstration I ordered 20 units."

John Hudson, Live Theatre, Newcastle-upon-Tyne

"The best range of profile fixtures since the 'Silhouette'."

Mats Karlsson, Bellalite, Sweden

"Trust CCT to come up with the goods on optical brilliance, and a snazzy little dimmer slung underneath."

Jim Laws, President, Jim Laws Lighting

"Superbly engineered, ideally suited to our market place."

David Wilkins, Lancelyn Lighting, Oxford

"Sharpest Gobo projection I have experienced in a profile fixture.

We initially bought 26 of them and now we have 48."

Kevin Hayes, Theatre Clwyd, Mould

"Freedom's distributive dimming saved me considerable set up time and cabling."

Uli Speckemeier, Arcus, Germany

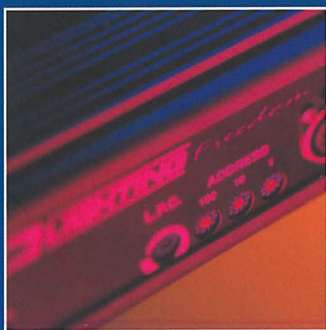
"These Lanterns are ideal for the Royal Exchange in every way."

Vince Herbert, Royal Exchange Theatre Company, Manchester

"We bought CCT's Freedom 600 in 1996 and have been using them almost daily.

Our clients were satisfied and our technicians are happy with its performance."

R I Simon, Kallang Theatre, Singapore



To find out more about the Freedom range please call us, or contact your distributor.

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