



**Freedom**<sup>2000</sup>  
& The *Freeway*  
Radio Dimmer System

Freedom 2000 the uniquely flexible approach to lighting; with numerous interchangeable options and the latest in lighting technology. Now incorporates Freeway radio controlled dimming for an even more flexible lighting system.

Smaller, lighter, smarter & sleeker

**CCT LIGHTING**



# Freedom 2000

» Smaller, lighter, smarter and sleeker - that's the Freedom 2000 range from CCT Lighting. These state-of-the-art international luminaires give you flexibility and choice to creating outstanding lighting results. Better light output efficiency, a remarkably even beam, perfect hard edge and outstandingly defined soft focus - Freedom 2000 is leading the way.

## Freedom 2000 Features and Benefits

### Unique

- An integrated system combining lamphouse, lenstubes; optional on-board DMX dimmers
- Fuseless direct current dimmer with local proportional control
- Freeway Radio Dimmer also with local proportional control
- Fresnel and Pebble Convex Luminaire with interchangeable lens units
- New specially designed aspheric lens and reflector configuration for increased light output

### Creative

- Changeable lenstubes providing variable beam angles (16° - 58°)
- Reversible, removable, rotating shutter blades
- Facility to turn dimmer channel controls into group controls
- Individual lens adjustment - gives greater flexibility of beam angle, hard and soft focus achieved
- The optical systems provide even beam, great depth of field and image clarity - ensuring Gobos stay in focus regardless of the projection angle

### Installation

- No dimmer room or radial wiring required, just ring mains or spurs and DMX wiring for Freedom dimmer (not required for Freeway Radio Dimmer)
- Can be added to your existing installation, as 6 Freedom 600W units require only a 16 amp supply
- One reflector lamphouse will take either 600 or 800W lamps
- Can be used with all existing Freedom and most Silhouette accessories.

### Efficiency

- High efficiency faceted reflector for a flat field and remarkably even beam quality
- Energy saving lamps equivalent output of traditional 1kW and 2kW units but lower energy consumption

### Safety

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



## Freedom 2000 600w/800w Reflector Optics

- » Lamp tray removal automatically disconnects from the supply or dimmer
- 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
- Finished in black for exceptional aesthetics
- Dimmer slides onto the lamphouse underside on two keyways
- A heavy duty lampholder with integral and external heatsink keeps the lampseal within the recommended temperature levels
- 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

### Freedom 2000 Accessories

A full range of standard accessories is available for all Freedom 2000 luminaires.



Colour frame and cassette



Interchangeable lamphouse and lenstube



Relamping

### The Freedom 2000 System

#### Reflector lamphouse for 600/800W lamps

- 16° - 30° variable beam angle lenstube
- 28° - 58° variable beam angle lenstube

#### Condenser lamphouse for 650w lamps

- 16° - 30° variable beam angle lenstube
- 40° - 53° variable beam angle lenstube

#### Freeble lamphouse for 600W lamps

- 6° - 50° Fresnel lens holder
- 8° - 31° Pebble convex lens holder

#### Dimmers

- 230v - 240v DMX dimmer
- Freeway radio dimmer 230v - 240v

### Lamps for Freedom 2000

#### Freedom 2000 Reflector Optics and Freeble (Freeble - 600W lamps only)

Lamp bases are G 9.5's to fit the TP22 lamp holders with a grid or coiled coil filament

Code	Wattage W	Voltage V	Output Lumens	Life Hours
GKV	600	240	14,000	300
GKV	600	230	14,000	300
FLK	575	115	16,500	300
HX400	400	115/120	10,000	300
HX401	400	115/120	8,500	1,500
HX601	575	115/120	12,800	1,500
HX602	575	115	18,000	300
HX603	575	115/120	15,000	1,500
HX800	800	240	20,000	250
HX800	800	230	20,000	250
HX800	800	115/120	22,000	250

#### Freedom 2000 Condenser Optics

Lamp base GY 9.5 with bi-plane grid filament

Code	Wattage W	Voltage V	Output Lumens	Life Hours
T/27	650	240	14,500	600
T/27	650	230	14,500	600

Available from GE Phillips and Osram



Radio dimmer on adapter plate

## The Freeway Radio Dimming System

The Freeway System is a complete wireless lighting control system utilizing 433 MHz radio signalling. Comprising of a mains/rechargeable battery operated control desk and individual mains powered clip-on dimmers, the system represents the latest in lighting technology and ease of use. With the Freeway System, luminaires can be controlled at a distance of up to 100 metres.

The hand-held control desk comprises of six individual channel or group controllers with an overall master fader. To the side of the desk are the on/off switch, power indicator and battery recharging socket.

Just one programming button on the dimmer permits

channel and 'top-set' level designation to the desk. The ability of 'top-set' enables several dimmers to be assigned to one fader at their varying lighting levels, turning the desk from channel function to group mode. The dimmer can be re-programmed at any time and has a re-writable panel for denoting channel and level. The Freeway System dimmers, with an adaptor plate, will fit most luminaires.

### Technical data

	Dimmer	Desk
Size	190 x 85 x 68 mm	210 x 145 x 40 mm
Weight	0.60 kg	0.80 kg
Frequency	433 MHz	433 MHz
Range	up to 100 metres	up to 100 metres
Battery type	-	rechargeable metal hydride
Battery recharging time	-	8 hours ( from total discharge)
Voltage	mains	7.2V battery, 12V power supply



650w Condenser

# Freedom<sup>2000</sup>

## 650w Condenser Optics

The 650w Condenser Units have all the freedom of the 600w/800w Reflector range plus:

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



"Freble" Fresnel



"Freble" Pebble

## Freedom<sup>2000</sup> Freble

>> The Freedom Freble shares most of the features of the 600w/800w profile range and takes both the Freeway and Freedom Dimmers.

- Lamphouse: 2 lenses
  - Fresnel
  - Pebble Convex
 (both are easily interchangeable)
- If a Fresnel gives too much spill light, switch to the cleaner beam of a Pebble Convex
- Fresnel beam angle: 6° - 50°
- Pebble Convex beam angle: 8° - 31°
- Positive lead screw focus
- When the lens turret is removed the spring loaded worm-drive operates a micro-switch to allow safe lamp change access
- 600W lamps only

(For details on the lamp range for the Freedom Freble please refer to the table on page 2).

## The Freedom Dimmer

The Freedom 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. Two models are available:

- Extends control board flexibility by giving a group of luminaires the same DMX address and then balancing individual luminaires, using the local proportional control to 'top set' the maximum light output
- Soft start facility reduces start-up power surge and preheat facility (not optically visible) extends lamp life
- CEE 22 power input and output plugs and a plug and socket for DMX 512 control

- If the DMX 512 is not available then local control is possible using the 16 step (6% difference per step) local proportional control
- Practically silent in operation and produces no interference with sound equipment
- Dimmer output is a form of direct current - this eliminates 'lamp sing' and extends lamp life
- The fuseless unit is protected against overload and short circuits. When the fault condition is removed operation returns
- Dimmers meet all EMC and EN directives

**Freedom Dimmer - fixtures up to 4A**  
This dimmer is designed for the Freedom range and any other luminaire up to 4 amps.

**Freedom Dimmer - fixtures up to 10A**  
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.

**Also available - 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.



Distributed by



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