

Freedom

*A stylish, state-of-the-art,
International luminaire
that allows you great
flexibility and creative
choice, wherever you are
in the World.*



Freedom Profiles cover all beam angles from 7° to 58° with 4 fixed beam and 3 variable beam lens tubes that all interchange.

Freedom Frebles have both fresnel and pebble lenses that also interchange.

Freedom accepts all the new 575/600W lamps that can be used in 110/115V or 230/240V environments.

Freedom's optional onboard DMX Dimmer, that just slides into the underside of the luminaire, comes in three variations to satisfy world-wide applications.

Freedom



We have called our new range "Freedom" because we believe that the name reflects the very essence of their concept.

They allow you total freedom to choose between Profiles and Frebles, with or without the optional Plug-In Dimmers. The lens tubes are fully interchangeable, as are the lenses on the Freble.

The lamp-houses can accept all known variants of the 575/600W, 110/115V and 230/240V lamps and by using the on-board dimmer all voltages, world-wide are covered.

Freedom luminaires have been developed by a large team of optical, electrical and mechanical Designers and Research Engineers around the very latest 575/600W high efficiency lamp technology. The finest computer designed reflector optics have been built into a completely new lamphouse with interchangeable lens tubes. Three new types of silent, cool-running and lightweight plug-in dimmers, that fit directly under the luminaires, are available with DMX 512 control and Localised Proportional Control (LPC).

LPC is the means by which the output from each dimmer-run luminaire may be scaled from 1 to 16 whilst also being controlled by a DMX signal, or quite simply used without any DMX signal to vary the intensity for static/exhibition displays. Set the LPC at Scale 15 (94%) and the lamp's life can be extended without the need for a control board. The dimmers have a soft-start facility and are electrically protected against overload/short circuit.

Freedom luminaires are finished in a two tone coloured strip to enhance their design. They are also available in a darker single coloured strip for those occasions where a less visible luminaire is preferred.

Freedom

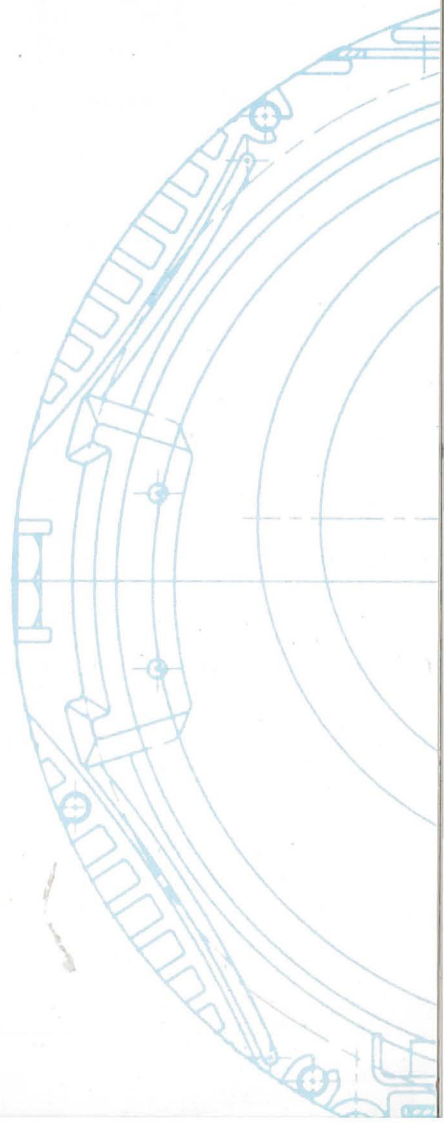


The use of the new lamps with our axial reflector and lensed system produces a quality and intensity of beam that far surpasses anything that has been available before, within Freedom's modest price band. Photometric comparisons made against our Turbo Sil luminaires confirm outstanding results for Freedom, where the light output equals or exceeds that of a traditional 1kW or 1.2kW fixture, whilst using 45% less energy and generating significantly less ambient heat.

The mechanical design incorporates all the refined features of our other luminaires and allows the operator to adjust lamp alignment for 'Flat, Cosine or Peak' beams and access the lenses for easy cleaning. The new shutter set has high angularity between the shutter blades. The retentive colour frame cassette accepts most normal accessories.

The design accuracy of the optics within Freedom's new pressure die cast and extruded lamphouse and lens tube allows Pin sharp shutter cuts and excellent Gobo projection with a great depth of field, whilst the beam is easily hard or soft edged. Freedom Profiles come with 20°, 30°, 40° and 50° fixed beams and three Zoom lens tubes 7°~ 17°, 15°~ 32° and 28°~ 58° they are all fully interchangeable and rotate 360°. The Freedom Freble is an entirely new style of luminaire that can take either a Fresnel or Pebble lens, which can be changed in seconds, combining the features of both luminaires.

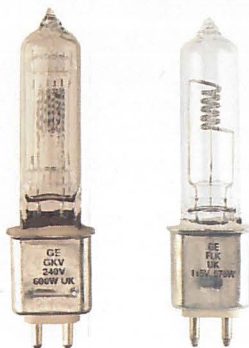
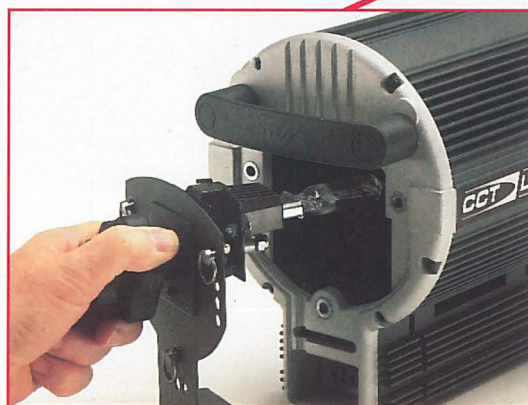
Safety is paramount and all luminaires are tested to meet or exceed the European standards EN 60598-1 and EN 60598-2-17 and they excel with their auto-disconnect of the lamp tray. The optional, cool, silent running dimmers cause little filament "Sing" and fully meet EMC directives EN-55014, CEI 110-1 and EN-55015, they have been immunity tested under EN-50082-1 and the 115V. 60Hz. units meet EN-55022.



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Removal of the lamp tray automatically disconnects the lamp from the power source or (if fitted) from the on-board dimmer module. An easily operated adjuster, which remains cool to the touch and therefore usable even after the unit has been running for some considerable time, allows the filament of the lamp to be accurately set within the axial reflector. The beam distribution can be made "Flat" or "Cosine" for Gobos or "Peaked" for hard shutter cuts with greater centre intensity.



Lamps bases must be G 9.5's to fit the TP22 lamp holders with a Grid or Coiled Coil filament.

HX 600/GKV	600W.	240V.	14,000 lumens.
HX 600/GKV	600W.	230V.	14,000 lumens.
HX 600/FLK	575W.	115V.	16,500 lumens.
HX 400	400W.	115/120V.	10,000 lumens.
HX 401*	400W.	115/120V.	8,500 lumens.
HX 601*	575W.	115/120V.	12,800 lumens.
HX 602	575W.	115V.	18,000 lumens.

* 1,500 Hour Long Life Lamps for Architectural use.

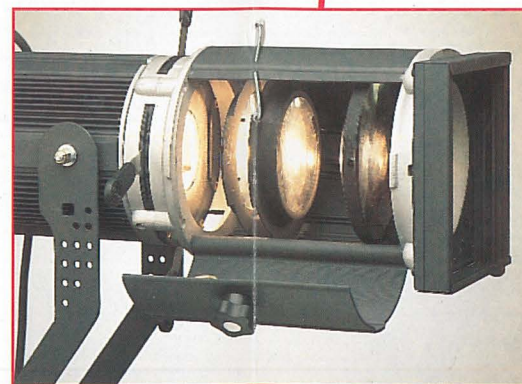
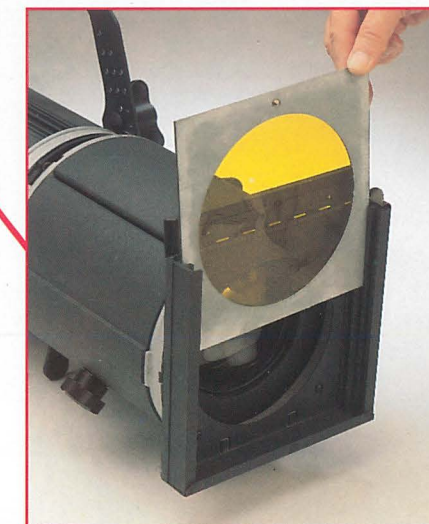
Three types of plug-in dimmers are available, depending on your supply voltage. The 230V module has a soft-start facility and pre-heats the lamp which helps to extend the lamp's life. The 120V module operates in a similar fashion and outputs 115V, whilst a 230V to 115V option is also available which allows the great range of coiled coil 115V bulbs to be used in all 220/240V locations. Each dimmer has DMX 512, 5-Pin XLR male and female sockets, individual address indicators and Localised Proportional Control (LPC).



The bayonet fittings that mate the lens tube to the lamphouse have a safety screw and locking knob. By aligning the indicator on the lamphouse with the raised line on the lens tube the two may be parted provided the safety screw has first been released. When the locking knob is released the lens tube may be rotated through 360°.



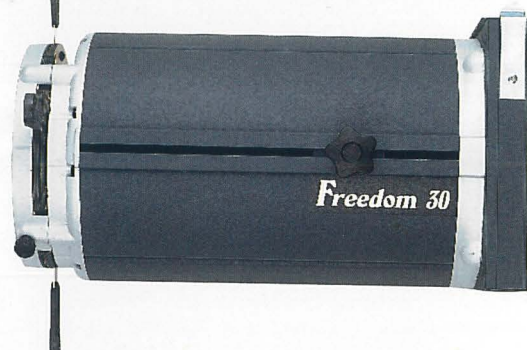
The retentive Colour frame cassette is DIN standard and takes all the effects and colour frames that were available for the Silhouette 30.



A full width access door in the fully rotating lens tube allows the operator to carry out maintenance and cleaning of the lenses, whilst the structural integrity of the tube is preserved by the cunning design of the castings, extruded profiles and their integral hinge system.

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The lamphouse with the faceted axial reflector and reversible offset hoop is the real heart of the product together with the optional on-board dimmer that slides into runners on the underside. By using the technology of a pressure die-cast chassis, bayonet fittings and end castings, combined with extruded aluminium profiling, a very strong heat dissipating and dynamic product is possible, at a sensible price.



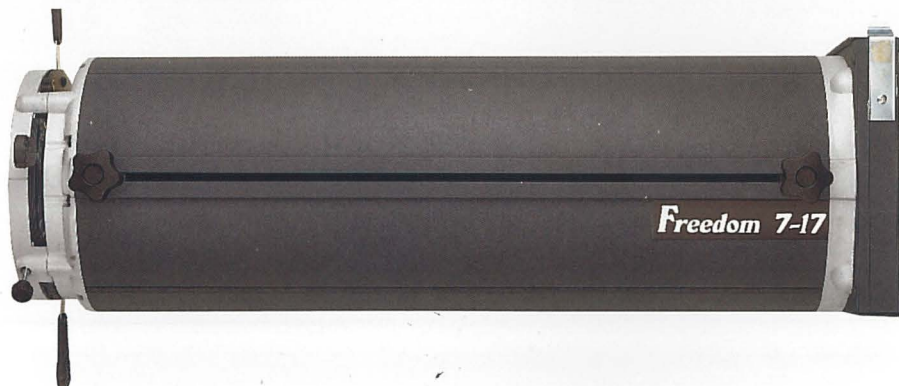
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The Freble lamphouse contains a lead screw for adjustment of focus of the lamp (fitted base-down) and by releasing the safety screw and loosening the locking knob the Fresnel or Pebble lenses, with their different sized front lens holders, may be fitted onto the lamphouse.



Freedom Dimmers allow luminaires to be Daisy-Chained together. Many units can be given the same DMX address, making a type of lamphead soft patch, by using the Localised Proportional Control (LPC) on each unit to set them individually at differing intensities. This will expand a DMX 512 control board from Channel to Group control.



Freedom Dimmers and Accessories

Z00001	Freedom 115Volt	DMX dimmer unit
Z00002	Freedom 230Volt	DMX dimmer unit
Z00002/1	Freedom 230-115Volt	DMX dimmer unit
ZS057	Freedom DMX Dimmer	Termination Plug
ZS059	Freedom High Temperature	2m Daisy Chain Lead

Freedom Luminaire Accessories

Z0011	Spare Colour Frame
Z0002/F	Spare Shutter Set
Z0018	Drop in Iris
Z0121	Size "A" Gobo Holder
Z0121B	Size "B" Gobo Holder
Y0120	Size "A" Scenic Gobo
Y0120B	Size "B" Scenic Gobo
Z0003	Safety Mesh
ZS058	Gate Accessory, Safety Bond
ZS055	Extra, Locking Side Clamp
Z0047	Set of 4 drop in Circular Masks: 16/30/50/60mm dia.
Y0083	Hook Clamp
Y0085	Safety Chain
Y0082	Black wire Safety Bond

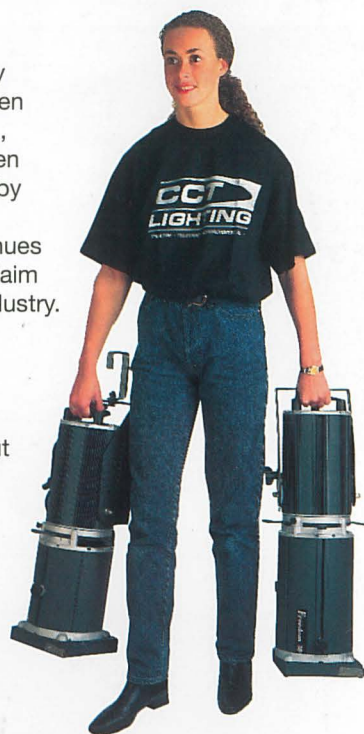
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Freedom Profiles range between 9 Kg and 11 Kg, the Frebles being considerably lighter. The Dimmers, if fitted, add less than 1 Kg. The luminaires have been developed so that they complement and allow considerable expansion of existing set ups without increasing the overall power requirements.

The Profiles and Frebles are quite outstanding in their own right, even without the dimmers, which can always be added at a later stage when one feels ready to enjoy the benefits of distributed dimming. New projects immediately benefit from reduced wiring and power distribution work, also the ongoing financial savings in air conditioning and power consumption costs.

The dimmers do add a completely new dimension to the product when combined with our patented LPC., so much so that Freedom has been voted "Best Product of the Year" by the Association of British Theatre Technicians. Thus Freedom continues to draw great admiration and acclaim across a wide spectrum of the industry.

Photometric data is available on request and is given as 'typical'. CCT reserves the right to change specification and materials without prior notice.



Distributed by

CCT Lighting Limited,
4 Tudor Court, Brighton Road,
Sutton, Surrey SM2 5AE U.K.
Tel: +44 (0)181 770 3636
Fax: +44 (0)181 643 9848

CCT
LIGHTING