



# Silhouette 2000 range variable beam profile spotlight



CCT Luminaires are currently used in theatres and television studios throughout the world.

The advanced 2000 range was chosen among others by the Royal Opera House, Covent Garden, the Sydney Opera House, the English National Opera Company, London Weekend Television, ATV and the Dubai Television Service.

CCT provide practical solutions to all the requirements of the world wide lighting profession.

Through a continuous process of user consultation coupled with our own research and development, a versatile range of high efficiency lanterns has been created. These lanterns directly complement our popular 1000 range and reflect the same degree of flexibility that you require.

This is a range of 2kW profile spots made by professionals for the professionals.

- ★ Variable Beam Angle within a Lens Tube
- ★ Advanced Safety Features
- ★ Good Balancing Facilities
- ★ Negligible Spill

Plus a range of well designed, well manufactured accessories which may also be used with other lanterns.

1. 2kW lamp house fitted with 15 lens tube
2. 30/40 lens tube
3. 15 lens tube
4. 10 lens tube

# Select the right 2kW Profile Spot for the job

## The Silhouette 30

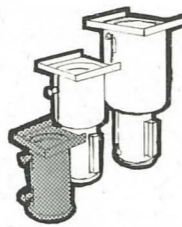
### FLAT FIELD

	Cut Off Angle	Beam Angle	Provides (Centrebeam) *	Throw	Diameter Circle
Narrowest	23°	18°	50ft candles (538 Lux)	12.4 metres	5.0 metres
Widest	40°	36°	50ft candles (538 Lux)	8.1 metres	5.9 metres

\*These Centrebeam measurements would be obtained using a CP43 lamp at 240V.

This lantern is ideal for TV and on stage work where a high light output is required. The lantern has a variable beam angle between 18° - 36° and provides a very smooth beam which varies by only a little over 2 : 1 across the field. It is thus relatively easy to obtain an even illumination when using several of these units.

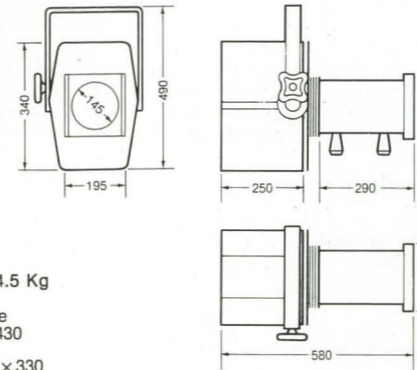
A given beam angle is chosen by adjusting the two independent lenses. The shutters may then be positioned to mask parts of the beam and an iris or gobo may be used. The hard edged beam can then be defocused to obtain a good soft edge by moving either of the lenses. When using the 30/40 lens tube to ensure good balance a wider yoke is attached to the lamp house.



## The Silhouette 40

is a change of front lens slide and lens in the same tube as the Silhouette 30. This provides an extra wide beam variable in cut-off angle from 30°-46° and is recommended for short range TV and Cylorama work.

The Silhouette 40 is particularly useful for projecting gobos and these may be considerably sharpened by inserting a circular mask into the colour runners.



### 2 kW 30/40

Packing: 1 unit per 2 boxes

Weight Net: 12.7 Kg Gross: 14.5 Kg

Dimensions Boxed: Lamp house  
360 x 350 x 430

Sil. 30/40 Lens Tube: 270 x 240 x 330

Total Gross Volume: .09 cubic metres

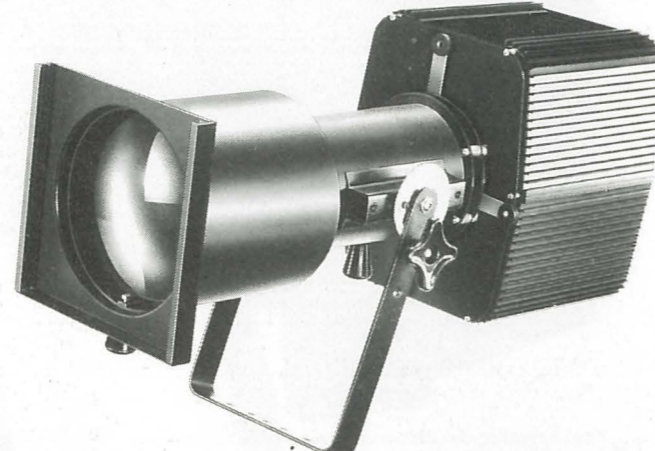
## The Silhouette 15

### FLAT FIELD

	Cut Off Angle	Beam Angle	Provides (Centrebeam) *	Throw	Diameter Circle
Narrowest	12°	9°	50ft candles (538 Lux)	20.7 metres	4.4 metres
Widest	23°	17°	50ft candles (538 Lux)	14.6 metres	5.9 metres

\*These Centrebeam measurements would be obtained using a CP43 lamp at 240V.

This unit covers the majority of front-of-house uses where a high light output must be combined within a compact and easily balanced housing. The lantern has a variable beam angle from 9° - 17° and like the others in the range a smooth flat beam. In addition it provides a very useful economic follow-spot when equipped with iris blackout assembly and rear handle. Hand operated colour change and auto-colour change units are available to fit this well ventilated lightweight unit.



### 2 kW 15

Packing: 1 unit per 2 boxes

Weight Net: 15.9 Kg Gross: 18.0 Kg

Dimensions Boxed: Lamp house  
360 x 350 x 430

Sil. 15 Lens Tube: 300 x 310 x 610

Total Gross Volume: 0.12 cubic metres

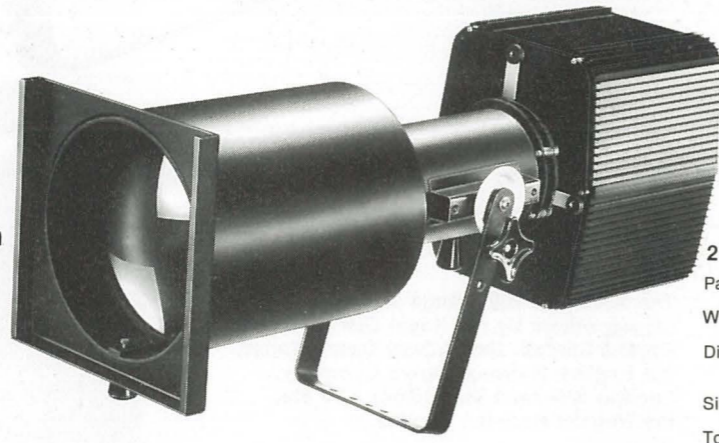
## The Silhouette 10

### FLAT FIELD

	Cut Off Angle	Beam Angle	Provides (Centrebeam) *	Throw	Diameter Circle
Narrowest	10°	7°	50ft candles (538 Lux)	25.0 metres	4.4 metres
Widest	19°	13°	50ft candles (538 Lux)	18.3 metres	6.1 metres

\*These Centrebeam measurements would be obtained using a CP43 lamp at 240V.

This spotlight has a beam angle of 7° - 13° and is ideal for overcoming the long throw problems encountered in opera houses, arenas and concert halls. When fitted with an iris blackout assembly and rear handle it makes an excellent follow-spot.



### 2 kW 10

Packing: 1 unit per 2 boxes

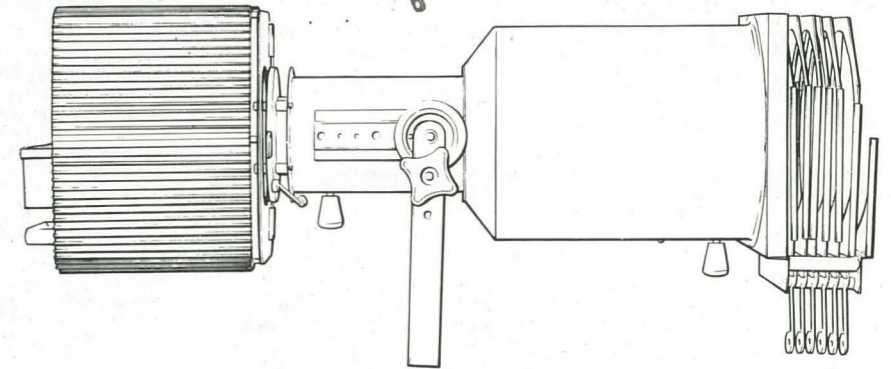
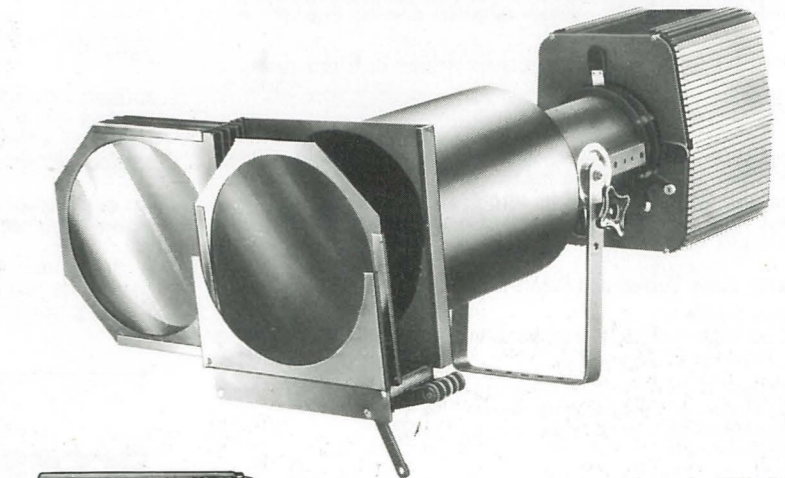
Weight Net: 20.2 Kg Gross: 23.1 Kg

Dimensions Boxed: Lamp house  
360 x 350 x 430

Sil. 10 Lens Tube: 350 x 360 x 680

Total Gross Volume: 0.14 cubic metres

## The 2000 Range Tungsten Halogen Follow Spot



## General Information

The Silhouette 10 follow-spot may be electronically dimmed and is an excellent choice for applications where the Silhouette 1000 C.S.I. would be inappropriate. The unit is sophisticated enough for the experienced lime operator without being impossible for the beginner to master.

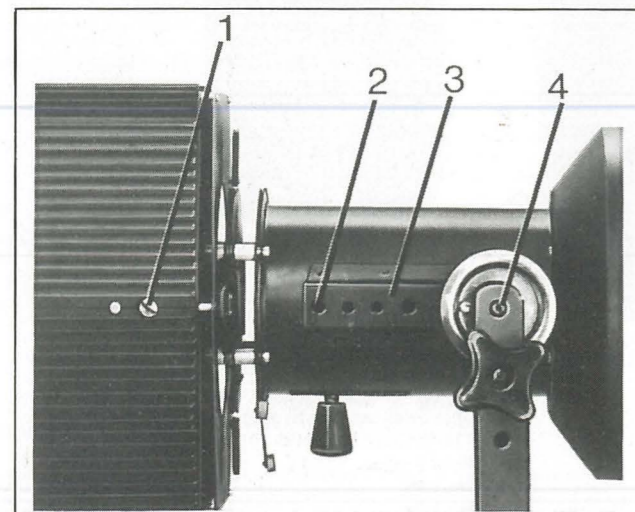
An iris and blackout assembly is placed in front of the shutter set if fitted, which can also be used to hold a gobo. To keep the iris handle cool, it is controlled from below and for the same reason the rear handle is made of an insulating plastic. The follow-spot may be used with a six colour hand operated magazine which is reversible for left or right handed operation.

The initial beam angle is achieved by positioning the two independent lenses and the beam can be soft or hard edged as preferred.

Balance is achieved by fitting the yoke to the forward pivot point and the friction lock may be adjusted to suit operator's requirements. A weight accessory added to the lamp house will give extra fine balance.

A specially designed stand is available for use with the follow-spot to complete this versatile package.

## Features of the new Silhouette Range



- ★ Smooth Even Field Light Output
- ★ Emphasis on Safety
- ★ Good Ventilation without Spill

### Simple Balancing System

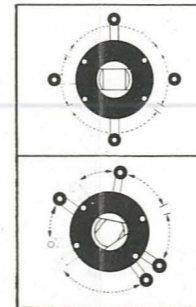
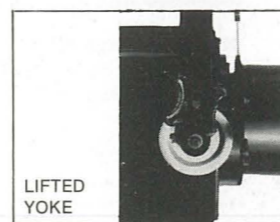
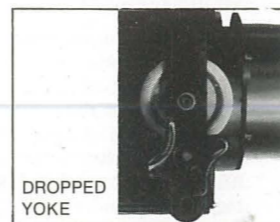
Complete flexibility is given by a series of alternative balance fixing points running through the lamp house to lens tube which can accommodate all accessories and lens position as illustrated 1-4. A friction lock is included to hold the lampholder in position when the locking knob is released.

### Height Adjustment Yoke

Normal overall height of yoke can be reduced by 10cm (1/3rd) for mounting luminaire up tight to the hanging position.

### Features

Louvred ventilation in the lamp house is light-leak-proof and ensures acceptable bulb temperature limits.



### Versatile Shutter Set

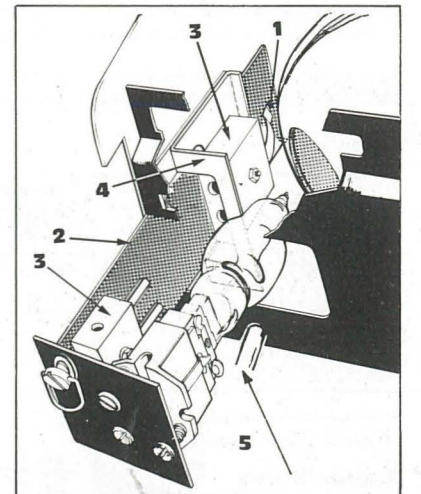
The side shutters have a 60° angle of operation, top and bottom shutters have a 140° angle of operation and can marry up to the side shutters when in extreme positions.

### Practical Finish

The luminaires are electrostatically coated with a black texture plastic finish which is baked on and has a high resistance to chipping and marking. The luminaire has a velvet look that reduces reflected light considerably allowing the unit to merge into the background.

### Special Safety Features

1. Spring scraping earth with positive location which bears onto the...
2. plated lamp slide for earth continuity even when the lamp slide is partially withdrawn from...
3. the specially designed ceramic connector. When the lamp tray is removed for relamping it is isolated from the female which is...
4. protected against mechanical damage by a metal top hat section. This section is earthed and prevents the lamp slide coming into contact with live parts in any event.
5. Secure cable entry gland. It is virtually impossible to pull the cable out of this component part.



• 'Beam Angle' = 50% of the centre beam peak (1/2 peak). • 'Field Angle' is where the light output falls to 10% of the centre beam peak (1/10 peak).  
• 'Cut Off' or 'Beam Spread' is the hard edge formed (100th peak). • The field and cut off angles are the same when applied to the Silhouette.

# Standard Specification

## Silhouette 2000W Profile Spot Lamp House is fitted with:

- 1 Aspheric reflector
- 1 240V lamp slide complete
- 1 Yoke with fixing holes to DIN standard (the centre hole is tapped to take a 5560 BS 4015 spigot where applicable)
- 1 1.5 metre PVC/silicone rubber cable
- 4 Beam shaping shutters in one unit
- 4 Lens tube spacers with nuts and spring washers
- 1 anti-spill ring

## Silhouette Lens Tubes are fitted with:

- 1 Filter frame
- 2 Adjustable mobile lenses enabling beam angle adjustment as follows:
  - Silhouette 40** Cut off angles—32° to 46°
  - Silhouette 30** Cut off angles—23° to 40°
  - Silhouette 15** Cut off angles—12° to 23°
  - Silhouette 10** Cut off angles—10° to 19°

Normally the yoke supplied is to fit the lens tube, please specify at time of ordering lens tube type required. Fixing hardware is included with each yoke. A modified lamp house for use with 120 volt bulbs is also available.

# General Information

The robust lamp housing is constructed in aluminium alloy, finned to ensure maximum heat dissipation. The entire outer casing of the luminaire is in black textured epoxy coating, stoved to a tough finish to withstand knocks and abrasions. There are four variations of lens tube designed to meet a variation of beam spread between 10° and 46°. All are completely interchangeable by means of four nuts securing the lens tube to the lamp house.

Beam shaping shutters are provided as a separate item mounted between the lamp house and lens tube enabling a sharp or soft edge cut off where required.

The handles controlling shutter action are within the outer measurement of the lamp house when fully closed to prevent damage in transit.

A particular advantage of this luminaire is its focusing system, using two mobile lenses; this facilitates a wide range of beam angles within a selected lens tube. The front lens determines the beam angle while the rear lens is used to focus the spot to a soft or hard edge. The control knobs screw tight to the lens tube securing the selected focus. A graduated scale is located parallel with the lens slide slot enabling a particular setting to be recorded.

The patented design of aspheric reflector together with the carefully selected lens combinations ensure a smooth beam which varies by only a little over 2:1 across the field.

A special feature is the isolating removable lamp tray allowing inspection or lamp cleaning with complete safety. Lamp adjustment to allow for manufacturers tolerances is by three sprung screws. The sturdy colour frame runners mounted on the front of the lens tube will accommodate two DIN standard book form colour filter frames or a colour change unit.

The luminaire requires very little maintenance. Access to the reflector for cleaning is easily gained by removal of the six

Pozidrive screws securing the back plate and withdrawing the complete reflector assembly. Lenses are positioned in-castings by means of Circlips and are easily removed for polishing.

A useful accessory is the drop-in iris slotting into the gate to convert the luminaire into an economical follow spot. The gate will also accept a gobo to project an image of a selected subject which can be focused as required.

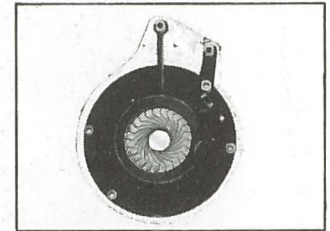
An extra pivot point is provided on the yoke to reduce height where required.

A technical advisory service manned by fully qualified engineers with many years experience of stage and studio lighting equipment is available to answer your enquiries.

# Accessories

## Iris/Blackout Assembly

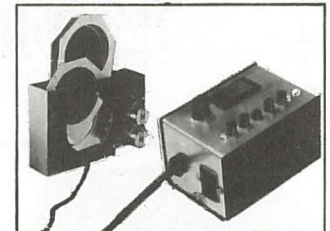
The addition of this assembly between the shutter set and nose tube turns the luminaire into a follow-spot. The blackout is normally activated automatically by the thumb at the end of the iris travel, both levers are insulated and mounted below the lens housing for easy cool operation.



Iris/Blackout Assembly

## Automatic Colour Change Unit

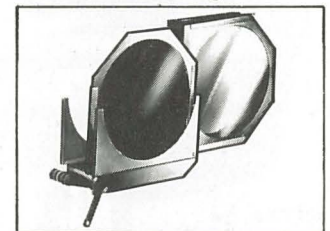
The 'Colorsette 4' motorised remote control colour change is a mains operated unit giving push button control of up to four colours. Three sizes are manufactured to fit Silhouette 30/40, 15 and 10 lens tubes. Send for separate leaflet and full specifications.



Automatic Colour Change Unit

## Hand Operated Colour Change Unit

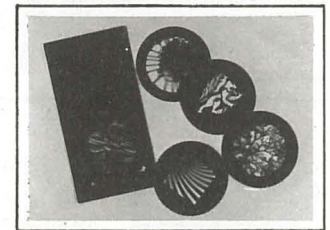
Colorsette 6 has a change facility for up to 6 colours, is easily reversible and can be operated from either side of the lamp housing. Manufactured in two sizes to fit Silhouette 15 and 10 lens tubes. Send for separate leaflet and specifications.



Hand Operated Colour Change Unit

## Gobo's

A full range of exciting specially designed shapes, patterns and outline pictures are available. Gobos are also tailor made to customer requirements. Send for separate leaflet and specifications.



Gobo's

## Spare Colour Frames

Book form colour frames are available these are designed for easy waste free filter cutting.

## Spare Shutter Sets

Sets are available. Prices on request.

## Follow Spot Handles

Follow-spot handles are available. Prices on request.

## Collapsible Stands

A range of specially designed collapsible stands are available. Please send for separate leaflet and specifications.

Spotlight type	Base	Filament Centre Height	Type	Power	No.	Colour temp.	Make	Lamp life	Working position
SIL 2000	GY16	70mm	Tungsten Halogen	2000W 240V 2000W 240V	CP43 CP43	3200K 3200K	THORN GEC	400 h 400 h	2 x 90° 2 x 90°

# CCT theatre lighting limited

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