

# Patt.23 (also Patt 23F, Patt 23W)

1953-1983

**The Pattern 23 was the first mass-produced theatre spotlight in the World. Die-cast by the 5000 for a market in which a gross (144) was thought to be an outsize batch, it was destined to run for thirty years.**



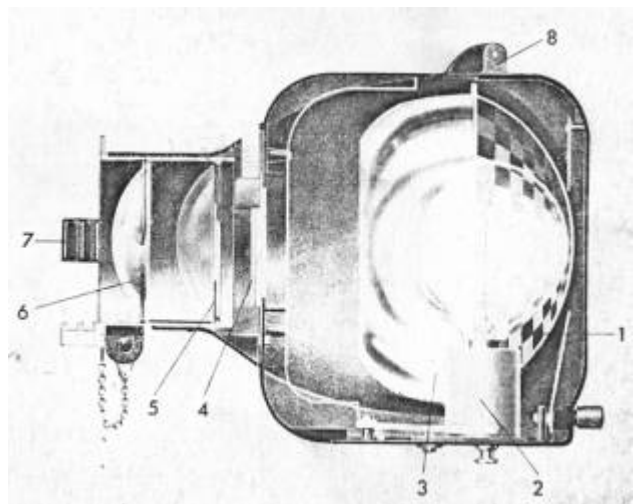
(from Datasheet, June 1967)

These compact spotlights project a clear cut even beam of any profile determined by a cut-out mask in the gate runners. Four masks of different, but fixed apertures are provided; optional beam-shaping accessories are an adjustable straight-edge mask or an iris diaphragm.

Different lens combinations are available so that the most efficient use can be made of the light collected at the gate by the front annular and rear ellipsoidal reflectors. The Fresnel lens model, Patt 23F, provides a diffused edge to the beam.

These models are recommended for applications where precise control of beam shape and spread is required in display, exhibition and feature lighting. For stage and studio lighting, where more frequent change of beam shape is necessary, the models with externally operated beam-shaping shutters, will be found more convenient.

- 1) 7-in. diameter faceted ellipsoidal reflector
- 2) Medium prefocus lampholder
- 3) 7-in. diameter annular reflector
- 4) Gate runners for beam-shaping mask or optional addition of an iris or purpose-made mask
- 5) Fixed aperture diaphragm to intercept stray light; also position for second 3½ x 5-in. lens for Patt 23W
- 6) 3½ x 5'in. lens for Patt 23, or 3½ x 4'in. Fresnel lens for Patt 23F, in sliding lens tube provided with safety chain
- 7) Double colour frame runners
- 8) Hinged rear door for interior access



## Pattern 23 Baby Mirror Spot 250 or 500 Watts

(Also Narrow Beam Patt.23N and Wide Angle Patt.23W)

This small, compact lantern which gives a clear-cut beam of any required shape free of stray or ghost light, has been tooled for mass production die-casting and

consequently represents exceptional value.

Light Distribution

The standard lantern with a single lens gives beam angles up to 22 degrees. The shape and size of beam are varied by using one of the four standard diaphragms, a special mask, an adjustable type mask, or iris diaphragm.

The beam angle may be increased to 37 degrees (but the intensity halved and the useful life of the colour medium noticeably reduced) by fitting an extra lens in the rear of the lens tube.

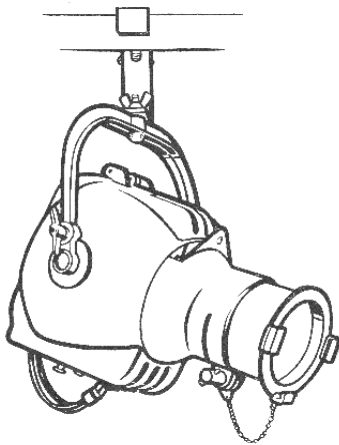
The beam angle may be decreased to 11 degrees max., and intensity increased over three times the standard, by fitting a front with a 6-in. lens, instead of the standard tube. The lantern is then suitable for long throws.

**SPECIFICATION (Standard Pattern 23)**

Ventilated die-cast aluminium body and lens tube assembly designed with medium pefocus lampholder for the alternative lamps listed below. Body is hinged at the rear to give access for lamping and cleaning. Rear part carries a 7-in. diameter super pure anodised reflector and the front half a 7-in. diameter annular spherical reflector to collect light which would otherwise be masked off and wasted. The light is directed onto a gate for diaphragm masks which are focussed hard or soft by an adjustable 3½-in. diameter, 5-in. focus p.c. lens in tube retained by safety chain. Four diaphragm masks with circular holes supplied as standard. Front of lens tube has runners for and is supplied with one metal colour frame. The cast fork with clamping disc and three-eighths of an inch Whitworth threaded hole is fitted with a ½-in. diameter plain stem, allowing lantern to be mounted on a stand. Stem can be unscrewed and replaced by any three-eighths inch Whitworth bolt for fixing to standard L clamps and other suspensions. Wired with 3 ft. heat-resisting tails and stoved crystalline black outside, matt black inside.

**Lamps** : 250-watt Class B.1 round bulb projector, 500-watt Class A.1 tubular projector\*, or preferably 500 watt Class T projector, all with medium pefocus caps.

*\*Only to be used cap down and only tilted within 22½° of the vertical.*




---

Patt.23 Profile

500W T/17 Halogen or T/1 lamp.

P.28 base.

Profile, extending 90mm diameter PC lens

30 degree max spread.

3m diameter at 5.6m throw.

355mm max length. 3.2kg.