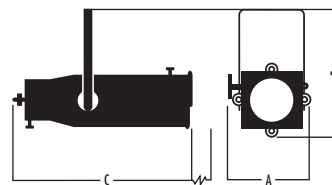




**Features**

- Insulated handle centers lamp within reflector
- Lamp housing secured by bottom insulated handle
- Peak/Flat fields easily achieved by moving lamp housing within reflector housing
- Lamp housing removes completely for easy lamp replacement
- Yoke hardware includes positive locking clutch disk for tilt control
- Shutters equipped with thermal insulated fingerholes
- Lens tube moves within shroud on oilite bushings and are secured by side insulated handle
- Rugged die-cast lens holders mount all 4-1/2" and 6" diameter lens
- variable field range between 15° - 35°



**Dimensional Data** – in. [cm] lbs.[kg]

<b>A</b>	15.0 [38.10]
<b>B</b>	25.5 [64.77]
<b>C</b>	28.0 [71.12]
<b>Weight</b>	20.5 [9.2]



# 5/50 Ellipsoidal - 15° - 35° Zoom

650-095

## Specifications

• Housing shall be constructed of die-cast aluminum, and sheet steel and aluminum with a high temperature black finish.

## Mechanical

- Optical Train shall consist of a medium two-pin base socket accommodating 500-1000 Watt tungsten halogen lamps, a specular double flat-ted Alzac® reflector, and plano convex lenses of low expansion, borosilicate glass. Lens configurations of one 4.5" x 9" and one 6" x 12" shall be operator adjustable to achieve 15°-35° field angles. Lens focus handles shall be thermally insulated.
- The gate assembly shall contain four adjustable stainless steel framing shutters, each operating in its own independent plane through a maximum of plus or minus 30° of rotation with up to 120° total angular rotation between adjacent blades. These blades shall be equipped with thermally insulated handles with fingerholes.
- Each unit shall be provided with a pattern slot and iris as specified. A socket assembly designed for rapid filament alignment through an

externally fitted adjustment handle to permit peak/cosine field control without the use of tools for lamp replacement.

- Socket shall be precision type TP-22 UL recognized, steatite insulated, die-cast aluminum construction, rated for 600 Volts, 1,000 Watts, 200°C, continuous operation. Rated seal temperature shall not be exceeded.
- Performance with 1000 watt, 300 hour, 3200°K (ANSI code FEL) lamp shall be 270,000 beam candlepower in peak focus with a 15° field angle, and 136,000 beam candlepower in peak focus with a 35° field angle.
- Mounting unit shall be provided with heavy steel yoke, a malleable iron C-Clamp for up to 2", I.D. pipe with a tapped and threaded steel hanger pin. An insulated focus handle on the rear and color frame holder shall be provided. The unit shall rotate vertically through the yoke for ease of focusing.
- Electrical unit shall be provided with 36" VHT leads, with connector as specified by option number. Approvals: UL Listed and labeled, CSA Certified.

## Description

## Cat. No.

Zoom Ellipse with 3-wire lead only	650-095
Same with 20 amp, 2-pole, 3-wire grounding pin connector	OPT-00002
Same with 3-wire U-Gnd (household) connector NEMA 5-15	OPT-00004
Same with 20 amp, 2-pole, 3-wire twistlock NEMA L5-20P	OPT-00006
Same with variation on standard (describe)	OPT-00007

## Accessories

## Cat. No.

Color Frame	120-005
Pattern Holder	138-003
Iris Kit	138-009
Safety Cable	138-059
C-clamp for 1-2" ID pipe	158-003
Glass Pattern Holder	1-9201
Donut	120-060

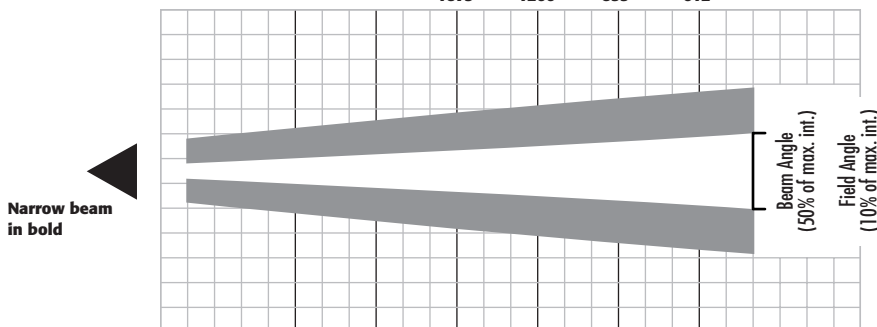
## Lamps

## Cat. No.

1000W, ANSI-FEL, 3200°K, 300 Hrs., 1.0 Multiplier	176-033
750W, ANSI-EHG, 3200°K, 500 Hrs., .75 Multiplier	176-187
750W, ANSI-EHF, 3200°K, 2000 Hrs., .56 Multiplier	176-185
500W, ANSI-EHC/EHB, 3200°K, 500 Hrs., .50 Multiplier	176-029
500W, ANSI-EHD, 3200°K, 2000 Hrs., .35 Multiplier	176-031
575W, ANSI-FLK/HX600, 3200°K, 300 Hrs., .81 Multiplier	176-200
575W, ANSI-HX601, 3200°K, 2000 Hrs., .63 Multiplier	176-601
1000W, ANSI-FEP, 3200°K, 250 Hrs., .63 Multiplier	176-096
1000W, ANSI-FEP, 3200°K, 250 Hrs., .63 Multiplier	176-095

Specifications subject to change without notice

Distance (meters)	6	9	12	15	18	21
Diameter Beam/Field (meters)	1.5/3.8	2.2/5.7	2.9/7.6	3.7/9.5	4.4/11.4	5.1/13.3
			<b>1.6/3.2</b>	<b>2.0/3.9</b>	<b>2.4/4.7</b>	<b>12.7/55</b>
Illumination (lux at beam center)	3778	1679	944	604	418	281
			<b>1875</b>	<b>1200</b>	<b>833</b>	<b>612</b>



Distance (feet)	20	30	40	50	60	70
Diameter Beam/Field (feet)	4.9/12.6	7.4/18.9	9.8/25.2	12.3/31.5	14.8/38.1	17.3/44.7
			<b>5.2/10.5</b>	<b>6.6/13.2</b>	<b>7.9/15.8</b>	<b>9.2/18.4</b>
Illumination (f.c. at beam center)	340	151	85	54.4	37.8	25.5
			<b>169</b>	<b>108</b>	<b>75</b>	<b>55</b>

## Photometric Performance

- Photometric Data 1000W lamp No. 176-033 ANSI code FEL
- For field diameter at any distance, multiply that distance by 0.63(wide) and 0.26(narrow).
- For illumination at any distance, divide 270,000 by the distance squared (wide) or divide 136,000 by the distance squared (narrow).

Field Angle	Efficiency	Candlepower
	Peak (Cosine)	Peak (Cosine)
Wide	8559(9299)	136,000(82,000)
Narrow	6649(7106)	270,000(206,000)

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