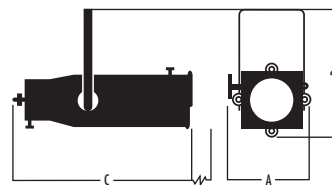




**Features**

- 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 outside of shroud and is secured by top insulated handle
- Rugged DIE-CAST lens tube mounts ALL 4-1/2 AND 6" diameter lens. Includes integral color frame holder
- Achieves 20°, 30° or 40° by relocating lenses



**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>	20.9 [9.48]



# 5/50 Ellipsoidal - 30°

650-035

## Specifications

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

## Mechanical

• Optical Train consists of a medium two-pin socket accommodating 500-1000 watt tungsten halogen lamps, specular Alzak® double-flatted elliptical reflector and plano convex lense(s) of low expansion, borosilicate glass. Lens configuration 1-(4-1/2" x 9", 6"x 9") will provide a field angle of 30°.

• The gate assembly contains four adjustable nickel/chromium stainless steel framing shutters and a pattern slot. Each shutter operates in an independent plane, with plus or minus 30° of rotation throughout the gate. Maximum angular rotation between adjacent shutters is 120°. Shutter blades are equipped with thermally insulated handles with fingerholes. Optional customer-installed Iris assembly is available.

• The socket assembly is designed for a rapid filament alignment by use of a thermoplastic

focus handle on socket housing which permits precise peak/flat field control. The entire assembly may be removed without tools for lamp replacement.

• Socket shall be precision type TP-22 UL recognized, steatite insulated, die-cast aluminum construction rated 600 volts, 1000 watts, 250°C, continuous operation. Lamp seal temperatures will not be exceeded.

• Performance with 1000 watt, 200 hour 3200°k lamp shall be 154,000 beam candlepower with 30° field, as shown in reference chart.

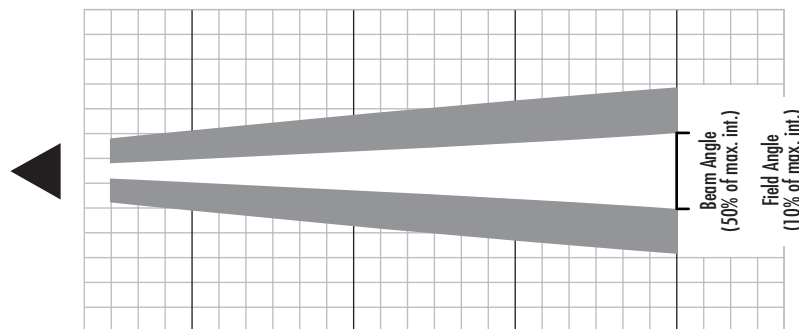
• Mounting unit is provided with heavy steel yoke, painted malleable iron C-Clamp for up to 2" I.D. pipe with a tapped and threaded hanger pin. Fixtures will rotate vertically through the yoke for simple focusing.

## Electrical

• The electrical unit shall be provided with 36" 3-wire VHT leads, with connector as specified by option number.

### Peak Focus

Illumination at Beam Center (footcandles)	385	171	96	62
Field Diameter (feet)	10.8	16.2	21.6	27.0
Distance (feet)	20	30	40	50



Distance (meters)	7	11	15	19
Field Diameter (meters)	3.8	5.9	8.1	6.3
Illumination at Beam Center (lux)	3143	1273	684	427

### Photometric Performance

- 5/50 Series 30° Ellipsoidal w/1000W Lamp No. 176-033, FEL
- For illumination from any distance, divide candlepower by the distance squared
- For field diameter at a specific distance, multiply field multiplier by distance

Field Angle	Beam Angle Peak (Cosine)	Candlepower Peak (Cosine)	Field Multiplier
30°	11.0(20.0°)	154,000(118,000)	.54

### Description

### Cat. No.

Ellipsoidal unit with 3-wire lead only	650-035
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	176-185
750W, ANSI-EHF, 3200°K, 2000 Hrs., .56 Multiplier	176-187
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

