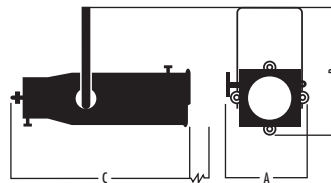




**Features**

- 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 the 6" diameter lens. Includes integral color frame holder



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

|               |              |
|---------------|--------------|
| <b>A</b>      | 15.0 [38.10] |
| <b>B</b>      | 25.5 [64.77] |
| <b>C</b>      | 29.5 [74.90] |
| <b>Weight</b> | 19.3 [8.75]  |



US Patent 4,187, 534

# 5/50 Ellipsoidal - 15°

650-055

## 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-(6"x12") will provide a field angle of 15°.

• 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 306,000 beam candlepower with 15° field, as shown in reference chart.

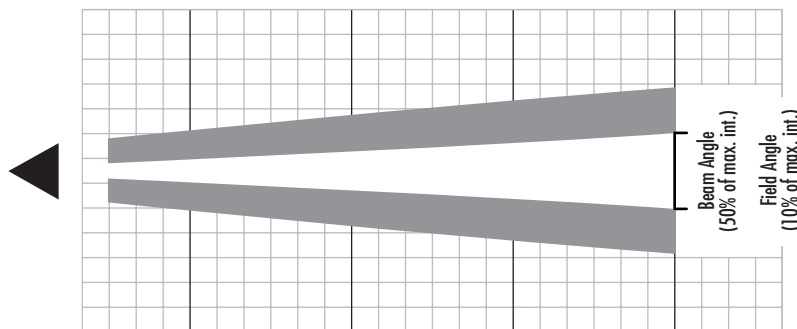
• Mounting unit is provided with heavy steel yoke, painted malleable iron C-Clamp for up to 2" I.D. pipe with a tapped and threaded hanger pin. Fixtures will rotate vertically through the yoke for simple focusing.

## 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) | 120  | 85   | 62   | 48   |
| Field Diameter (feet)                     | 13.3 | 15.8 | 18.5 | 21.1 |
| Distance (feet)                           | 50   | 60   | 70   | 80   |



|                                   |      |      |     |     |
|-----------------------------------|------|------|-----|-----|
| Distance (meters)                 | 13   | 17   | 21  | 25  |
| Field Diameter (meters)           | 3.4  | 4.5  | 5.5 | 6.6 |
| Illumination at Beam Center (lux) | 1810 | 1055 | 694 | 490 |

## Photometric Performance

- 5/50 Series 15° 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 |
|-------------|--------------------------|---------------------------|------------------|
| 15°         | 6.8(10.0°)               | 306,000(286,000)          | .26              |

## Description

## Cat. No.

Ellipsoidal unit with 3-wire lead only 650-055

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

