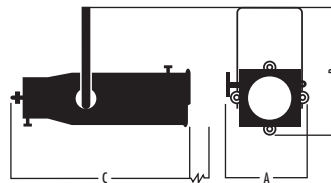




Features

- 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 lens tube mounts the 4-1/2" diameter lens. Includes integral color frame holder



Dimensional Data – in. [cm] lbs.[kg]

| | |
|---------------|--------------|
| A | 15.0 [38.10] |
| B | 25.5 [64.77] |
| C | 28.0 [71.12] |
| Weight | 20.9 [9.48] |



US Patent 4,187, 534

5/50 Ellipsoidal - 50°

650-015

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 2-(4-1/2" x 6-1/2") will provide a field angle of 50°.

• 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 750 watt, 200 hour 3200°K lamp shall be 68,500 beam candlepower with 50° field, as shown in reference chart.

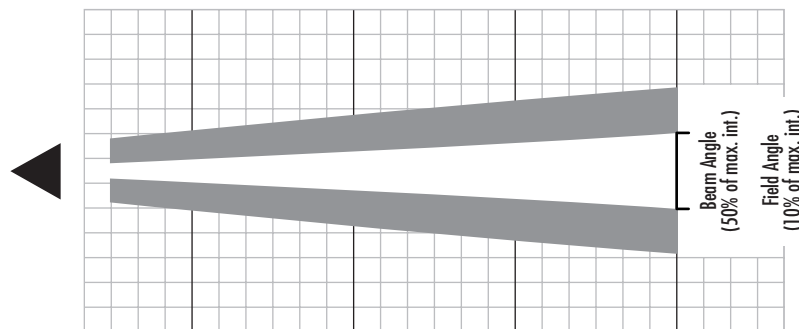
• Mounting unit is provided with heavy steel yoke, painted malleable iron C-Clamp for up to 2" I.D. pipe with a tapped and threaded hanger pin. Fixtures will rotate vertically through the yoke for simple focusing.

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) | 687 | 172 | 76 | 43 |
| Field Diameter (feet) | 9.3 | 18.6 | 27.9 | 37.2 |
| Distance (feet) | 10 | 20 | 30 | 40 |



| | | | | |
|-----------------------------------|------|------|-----|------|
| Distance (meters) | 3 | 7 | 11 | 12.5 |
| Field Diameter (meters) | 2.8 | 5.6 | 8.4 | 11.2 |
| Illumination at Beam Center (lux) | 7633 | 1908 | 872 | 477 |

Photometric Performance

- 5/50 Series 50° 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 |
|-------------|--------------------------|---------------------------|------------------|
| 50° | 17.5(26.7°) | 68,200(27,000) | .73 |

Description

Cat. No.

Ellipsoidal unit with 3-wire lead only 650-015

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 120-016

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.

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

Specifications subject to change without notice

