5/50 Ellipsoidal - 20°

650-045

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 6" diameter lens. Includes integral color frame holder*

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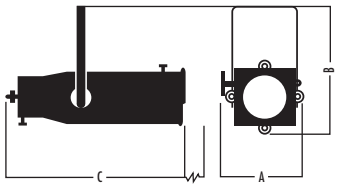

Dimensional Data – *in. [cm] lbs.[kg]*

A	15.0 [38.10]
B	25.5 [64.77]
C	28.0 [71.12]
Weight	19.7 [8.93]

US Patent 4,187, 534

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COLORTRAN DIVISION
Building a Connected World

5/50 Ellipsoidal - 20˚

650-045

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"x9") will provide a field angle of 20˚.

• 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 224,000 beam candlepower with 20˚ field, as shown in reference chart.

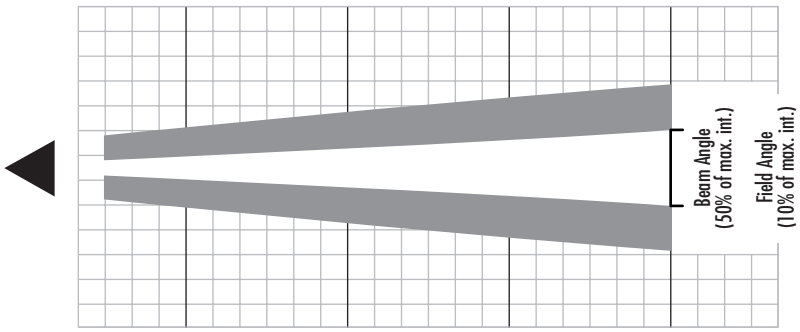
• Mounting unit is provided with heavy steel yoke, painted malleable iron C-Clamp for up to 2" I.D. pipe with a tapped and threaded hanger pin. Fixtures will rotate vertically through the yoke for simple focusing.

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)	249	140	90	62
Field Diameter (feet)	10.5	14.0	17.5	21.0
Distance (feet)	30	40	50	60



Distance (meters)	10	12.5	15	17.5
Field Diameter (meters)	3.5	4.4	5.3	6.1
Illumination at Beam Center (lux)	2240	1434	996	731

Photometric Performance

• 5/50 Series 20˚ 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
20˚	8.3(15.3˚)	224,000(171,000)	.35

Description	Cat. No.
Ellipsoidal unit with 3-wire lead only	650-045
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	120-015
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

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Literature #007-MKCTN-000

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