

DESCRIPTION

The Lumark Hammer's one-piece die-cast housing provides smooth, clean-line aesthetics while ensuring watertight protection of the electrical components. A computer-designed optical assembly delivers repeatable photometrics in four beam patterns for maximum design flexibility. U.L. listed for wet locations. CSA certified.

APPLICATION

Superior beam utilization and smooth distribution make the Hammer ideal for parking areas, access roadways and other general offstreet area/site lighting applications.

SPECIFICATION FEATURES

A...Latches

Spring-loaded, die-cast latches provide entry without tools.

B...Housing

Weather-resistant, one-piece die-cast aluminum housing is finished in dark bronze polyester powder coat as standard. Optional colors available.

C...Reflector

Hydroformed anodized aluminum reflector delivers repeatable Type I, II, III and Forward Throw distributions.

D...Gasket

Die-cut, dacron polyester gasket seals out external contaminants.

E...Door

Removable one-piece die-cast aluminum door with clear flat tempered glass lens.

F...Socket

Mogul-base porcelain socket for high pressure sodium or above 150W Metal Halide lamps.

G...Ballast

Removable swing-down ballast assembly standard on arm mount units. Optional hard mount assembly available. Hard mount ballast assembly standard on internal slipfitter option.



HRHAMMER

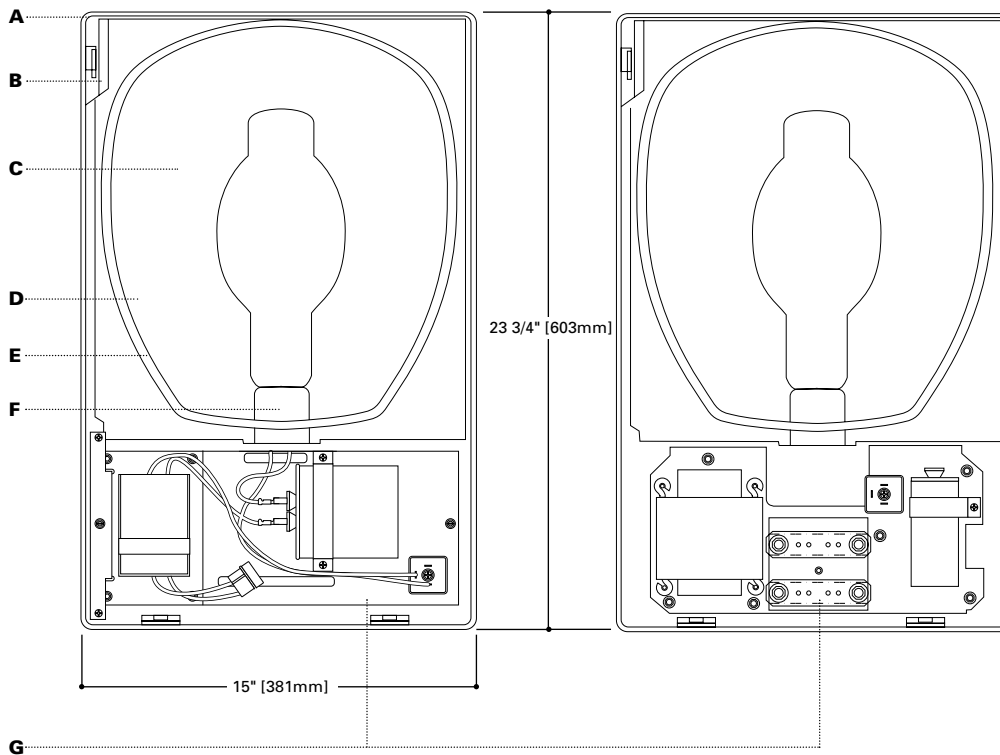
70 - 400 W

**High Pressure Sodium
Metal Halide**

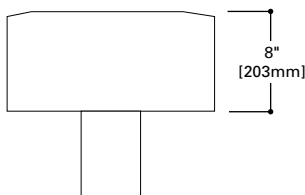
**ARM-MOUNTED
AREA/SITE LIGHT**

SWING-DOWN BALLAST

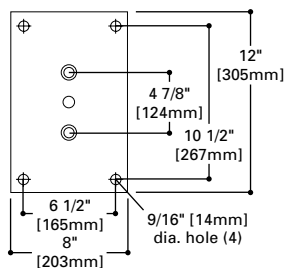
HARD MOUNT BALLAST



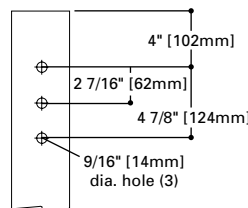
FRONT DIMENSIONS



WALL MOUNT DRILLING



ARM MOUNT DRILLING



ENERGY DATA

Hi-Reactance Ballast Input Watts

70W HPS HPF (95 Watts)
100W HPS HPF (130 Watts)
150W HPS HPF (190 Watts)
150W MH HPF (185 Watts)

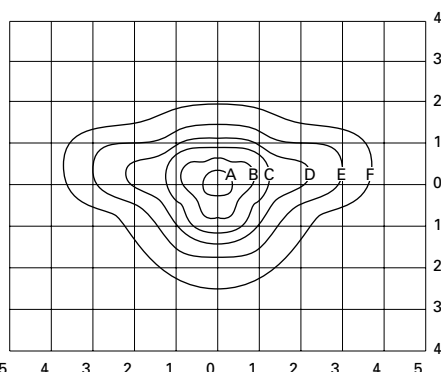
CWI Ballast Input Watts

250W HPS HPF (300 Watts)

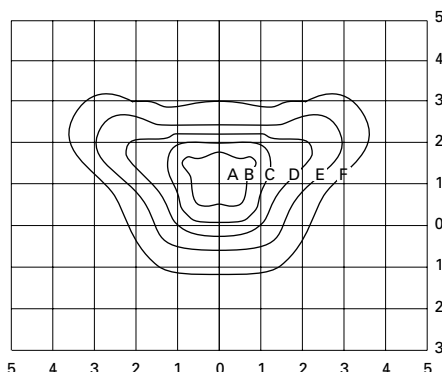
CWA Ballast Input Watts

175W MH HPF (210 Watts)
200W MP HPF (232 Watts)
200W HPS HPF (250 Watts)
250W MH HPF (295 Watts)
320W MP HPF (365 Watts)
350W MP HPF (395 Watts)
400W MP HPF (448 Watts)
400W MH HPF (455 Watts)
400W HPS HPF (465 Watts)

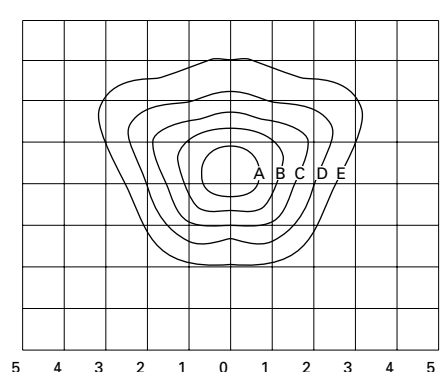
PHOTOMETRICS



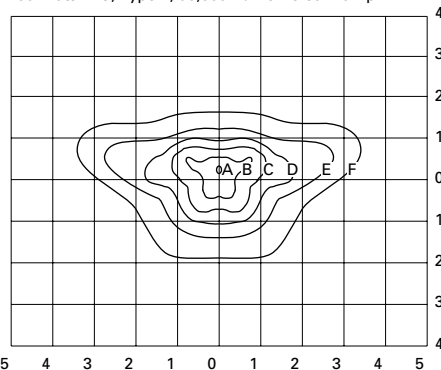
HR-1
HPHR-R2-400-MT
400-Watt HPS, Type II, 50,000-Lumen Clear Lamp



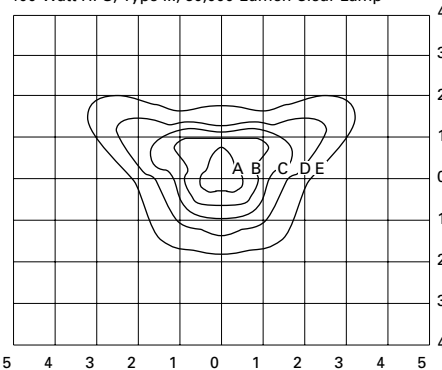
HR-2
HPHR-R3-400-MT
400-Watt HPS, Type III, 50,000-Lumen Clear Lamp



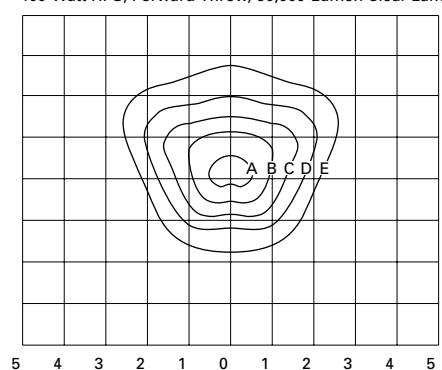
HR-3
HPHR-FT-400-MT
400-Watt HPS, Forward Throw, 50,000-Lumen Clear Lamp



HR-4
MHHR-R2-400-MT
400-Watt MH, Type II, 34,000-Lumen Clear Lamp



HR-5
MHHR-R3-400-MT
400-Watt MH, Type III, 34,000-Lumen Clear Lamp



HR-6
MHHR-FT-400-MT
400-Watt MH, Forward Throw, 34,000-Lumen Clear Lamp

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	11.25	4.50	2.25	1.13	0.45
25'	7.20	2.88	1.44	0.72	0.29
30'	5.00	2.00	1.00	0.52	0.20

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines					
	A	B	C	D	E	F
20'	22.50	11.25	4.50	2.26	1.13	0.45
25'	14.40	7.20	2.88	1.44	0.72	0.28
30'	10.00	5.00	2.00	1.00	0.50	0.20

ORDERING INFORMATION

SAMPLE NUMBER: HPHR-R3-400-MT-Q



- Lamp Type**
HP=High Pressure Sodium
MH=Metal Halide
MP=Pulse Start MH (CWA)¹
ML=Pulse Start MH (Linear Reactor)^{2,3}

- Distribution**
R1=Type I
R2=Type II
R3=Type III
FT=Forward Throw⁴

- Lamp Wattage**⁵
70=70W
100=100W
150=150W
175=175W
200=200W
250=250W
320=320W⁶
350=350W⁶
400=400W

- Voltage**⁷
120V
208V
240V
277V
347V
480V
MT=Multi-Tap⁸
TT=Triple-Tap⁸

- Options** (add as suffix)
PER=NEMA Twistlock Photocontrol Receptacle
F1=Single Fuse (120, 277 or 347V)
F2=Double Fused (208, 240 or 480V)
Q=Quartz Standby
AF=Four-stage air filter
HS/HR=House side cutoff
VS/HR=Vandal Shield
S=1 1/4"-2 3/8" Internal Slipfitter (hard mount only)

- Accessories** (order separately)
OA1016=Photoelectric Control, 105-285V NEMA Type
OA1027=Photoelectric Control, 480V NEMA Type
OA1028=Field-installed Photocontrol Receptacle, NEMA Type (Order photoelectric control separately)
OA1090=Adjustable Slipfitter for 2 3/8" O.D. Vertical Tenon
OA1061=Direct Mount Plate for Square Pole
OA1062=10" Arm for Square Pole, .53 EPA
OA1063=Direct Mount Plate for Round Pole
OA1064=10" Arm for Round Pole, .53 EPA
OA1065=Wall Mount Bracket
OA1066=Mast Arm Adapter for Existing 2 3/8" O.D. Horizontal Arm
OA1021=Photoelectric Control, 347V NEMA Type
LL=Lamp Included

Series
HR=Hammer

Catalog Number	Lamp Type/Base	Lamp Wattage	Ballast Type/Power Factor	Voltage	Distribution	EPA	Net Wt. (lbs.)	Shipping Volume (cu. ft.)
HPHR-R3-70-MT	HPS/Mogul	70	Hi.-X/HPF	Multi-Tap	Type III	1.58	31	1.65
HPHR-R3-100-MT	HPS/Mogul	100	Hi.-X/HPF	Multi-Tap	Type III	1.58	31	1.65
HPHR-R3-150-MT	HPS/Mogul	150	Hi.-X/HPF	Multi-Tap	Type III	1.58	33	1.65
HPHR-R3-200-MT	HPS/Mogul	200	CWA/HPF	Multi-Tap	Type III	1.58	39	1.65
HPHR-R3-250-MT	HPS/Mogul	250	CWI/HPF	Multi-Tap	Type III	1.58	39	1.65
HPHR-R3-400-MT	HPS/Mogul	400	CWA/HPF	Multi-Tap	Type III	1.58	46	1.65
MHHR-R3-175-MT	MH/Mogul	175	CWA/HPF	Multi-Tap	Type III	1.58	39	1.65
MHHR-R3-250-MT	MH/Mogul	250	CWA/HPF	Multi-Tap	Type III	1.58	39	1.65
MHHR-R3-400-MT	MH/Mogul	400	CWA/HPF	Multi-Tap	Type III	1.58	46	1.65

NOTES: ¹ 200, 250, 320, 350 & 400W. ² 200, 320, 350 & 400W. ³ 277 only, not available with Q or EM option. ⁴ 400-watt MH Forward Throw luminaire must use ED-28 lamp. ⁵ All lamps are mogul-base. 150W Metal Halide and lower are medium-base. ⁶ Pulse Start Metal Halide only. ⁷ Products also available in non-US voltages and 50Hz for international markets. Consult your Cooper Lighting Representative for availability and ordering information. ⁸ Multi-Tap ballast is 120/208/240/277V. Triple-Tap ballast is 120/277/347V. Add desired voltage before "MT" or "TT".

NOTE: Specifications and dimensions subject to change without notice.



Visit our web site at www.cooperlighting.com
 Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770.486.4800 FAX 770.486.4801 ADH010358