

HMAO™ R & L SERIES

High Mast
Advanced Optix
R and L Series



The HMAO Family has Expanded! The refractor series has arrived.

Now Available:

The HMAO R Series with Cutoff Symmetric Refractor and the HMAO L Series with asymmetric refractor

The HMAO R Series and the HMAO L Series consists of open ventilated glass and a spun aluminum cover; with specular panels which are hermetically sealed between the glass and cover, and an attached prismatic glass refractor.

The combination of the HMAO reflector and prismatic glass refractor provides the best combination of horizontal and vertical illumination.

Features

- Superior optical performance
- Open ventilated glass
- Spun aluminum cover
- Reflective/specular panels hermetically sealed between glass and cover (*patent pending*)
- Symmetric and asymmetric lighting distribution
- IESNA Cutoff (R Series and 400W L Series only)
- Internal terminal block
- Unitized ballast assembly with quick disconnect electrical assembly

Benefits

- Open ventilated design minimizes dirt depreciation
- Utilizes existing mounting capabilities
- Maximizes pole spacing
- Reduces energy costs



HMAO™ R & L SERIES

High Mast Advanced
Optix R and L Series



INFRASTRUCTURE | High Mast Lighting

Preferred Selections:

Most Frequently Ordered Catalog Numbers

HMAO	400HP	48	R	7
1	2	3	4	5
LUMINAIRE	WATTAGE	VOLTAGE	OPTICS	BEAM ANGLE
HMAO	400HP C10HP	48 MT	L R	7

Catalog Numbers for Entire Product Offering

(Pricing and lead times may be affected)

STEP 1: LUMINAIRE

HMAO High Mast Advanced Optix Series

"L" Max. Weight: 41.7 kg (92 lbs.)
EPA: 1.78 ft²

"R" Max. Weight: 39.2 kg (88 lbs.)
EPA: 1.72 ft²

STEP 2: SOURCE AND WATTAGE

HIGH PRESSURE SODIUM
Mogul Base

400HP¹ 400W HPS
40RHP¹ 400W HPS, mag reg
750HP¹ 750W HPS
C10HP^{1,3} 1000W HPS
CP1HP^{1,3} 1000W HPS, compact lamp

¹ Mogul base lamp
² Protected sockets, open fixture rated lamps only
³ 105°C supply wire required on all 1000W HPS

STEP 2: SOURCE AND WATTAGE

METAL HALIDE
Mogul Base

400MH¹ 400W MH
400MP² 400W MH, protected
400PM¹ 400W MH, pulse start
400PP² 400W MH, pulse start, protected
C10MH¹ 1000W MH
C10MP 1000W MH, protected

¹ Mogul base lamp
² Protected sockets, open fixture rated lamps only

STEP 3: VOLTAGE

08¹ 208V
40¹ 240V
12 120V
20 208V
24 240V
27 277V
34 347V
48 480V

Multi-voltage

MA Prewired for 120V
MB Prewired for 208V
MC Prewired for 240V
MD Prewired for 277V
MT² Multi-voltage

¹ Isolated secondary. Handled through TS
² 120, 208, 240, and 277V only. Not available with 40RHP or 750HP

STEP 4: OPTICS

L Asymmetric refractor
R Symmetric refractor

STEP 5: BEAM ANGLE

7 Low
9 High

STEP 6: OPTIONS

Factory installed

FD1¹ Single fuse disconnect assembly
FD2² Double fuse disconnect assembly
PS Protected starter for HPS
R Photocontrol receptacle (NEMA type)

¹ For 120, 240, 277 and 347V
² For 208, 240 and 480V

STEP 7: ACCESSORIES

Ships separately

F1 Single fuse assembly for 120, 240, 277 or 347V
F2 Double fuse assembly for 208, 240 or 480V
LAMP Appropriate HID lamp supplied
PS-100 Replacement protected starter for wattage 400 or more
PS-1000 Replacement protected starter for wattage 1000



Typical Applications

- Highways
- Interchanges
- Ports
- Rail Yards
- Container Yards
- Parking Areas
- Truck Stops
- Treatment Plants
- Security Lighting
- Sports Lighting

Specifications

Housing

The housing shall be die cast aluminum, and finished with polyester powder paint. The bracket arm clamp shall attach to a 51mm (2") nominal schedule 40 pipe and allow for ±3° adjustment for leveling the luminaire. A stainless steel lamp clamp lined with woven glass cloth shall be attached to the reflector housing assembly for standard 1000 watt HID lamps. The fixture shall pass a vibration fatigue test per ANSI standards for Roadway Lighting Equipment - Luminaire Vibration.

Ballast

The ballasts shall be copper wound with power factor 90%, and have a published ballast factor of 1 to ensure full output of the lamp. All ballast components shall be completely removable as a unitized quick disconnect assembly for maintenance. A terminal block shall be provided to simplify wiring and provide positive electrical connections. A protected starter, if specified, shall sense an inoperative or missing HPS lamp and automatically shut down to prevent runaway operation, shortened life, and damage to secondary ballast windings.

Optical Assembly

The optical assembly consists of highly specular enhanced aluminum panels hermetically sealed between a spun aluminum cover and an open ventilated borosilicate glass piece and refractor. The smooth glass inner surface shall be continuously cleaned by the chimney effect of flow through air and subject to no permanent deterioration.

The lamp shall be operated in the vertical position for maximum life and lumen maintenance.

There shall be no glass bottom enclosure to scatter light above the horizon, to collect dirt or to reduce luminaire efficiency. Luminaire dirt depreciation shall be less than 5% (LDD 0.95).

UL Listing

Fixture shall be UL listed for wet locations, UL/CUL listed for 40°C.



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Contact your local Holophane factory sales representative for application assistance, and computer-aided design and cost studies. For information on other Holophane products and systems, call the Inside Sales Service Department at 740-345-9631. In Canada call 905-707-5830 or fax 905-707-5695.

Limited Warranty and Limitation of Liability Refer to the Holophane limited material warranty and limitation of liability on this product, which are published in the "Terms and Conditions" section of the current Buyers Guide, and is available from your local Holophane sales representative.

