



## Expanded Aviator Family of Full Cutoff Lighting

NEW LARGE AND WALL PACK AVIATOR



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OUTDOOR ARCHITECTURAL LIGHTING



A family of luminaires  
inspired by the image  
of a wing in motion

Elegant by day, brilliant by night.  
Full cutoff design and performance.

175 WATT MAX



400 WATT MAX



1000 WATT MAX

WALL MOUNTED TYPE III AND TYPE IV AREA LIGHTING



POLE MOUNTED TYPE III AND TYPE IV AREA LIGHTING



WALL PACK



POLE MOUNTED TYPE V  
AREA LIGHTING



# Stylish Design + IESNA Full Cutoff Compliance



Full cutoff luminaires are rapidly becoming the standard as more and more communities attempt to reduce light pollution. The International Dark Sky Association has had a dramatic impact on the lighting industry by creating consumer level awareness of this issue. As more people have embraced the concept of “darkening” our night skies, elected officials have adopted practices that assist in the process.

The Ruud Lighting Aviator Series is IESNA Full Cutoff compliant and features a dramatic new housing style with elegant day form. The Aviator range now includes 175 Watt Max, 400 Watt Max and 1000 Watt Max housings, plus a new full cutoff wall pack. All of the luminaires share design characteristics allowing them to work together in visual harmony on the site.

## COMPLETE RANGE OF SIZES AND STYLES

HOUSING	WATTAGE	PERFORMANCE			MOUNTING							
		Type III	Type IV	Type V Square	Upsweep	Extended Arm	Extended Arm	Direct Mount	Indirect Mount	Wall Mount	Post Mount	Side Arm
Small	to 175W	■	■		■	■	■	■	■			
Medium	to 400W	■	■		■	■	■	■	■			
Large	to 1000W	■	■	■							■	■

HOUSING	WATTAGE	MOUNTING
Small Wall Pack	to 175W	Wall Mount ■



## A Family of Luminaires

Elegant style, clean lines, excellent optics and robust design. From the Wall Pack Aviator to the 1000 Watt area light, all of these elegant products share design characteristics allowing them to work together in a coherent site lighting package.

The Aviator area light luminaires utilize segmented optics and premium materials to deliver excellent efficiency and uniformity. They also feature tool-less entry to the optical chamber for simplified maintenance. The internal hinge assembly allows for easy removal of the door frame.

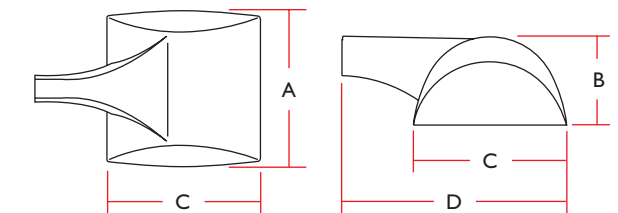
All Aviator products are robust in design and are rated for 40° C ambient operation. This has been accomplished using a special design ballast heat sink for maximum heat transfer. This keeps the operating temperatures lower in the ballast compartment resulting in reduced thermal stresses on the other electrical components. Aviator products are UL, C-UL and CE listed for use in wet locations. Other certifications are also available; consult your local affiliate.

And all Aviator products feature distinctive side bevel styling, allowing all products to be utilized on the same site with a level of design coordination.

### Large Aviator

#### 1000 WATT

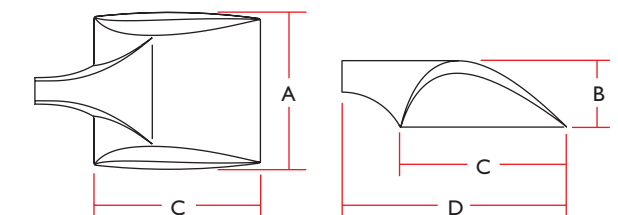
A = 25" (635 mm)  
 B = 14.5" (368 mm)  
 C = 25.0" (635 mm)  
 D = 36.7" (931 mm)



### Medium and Small Aviator

#### 400 WATT

A = 18.5" (470 mm)  
 B = 7.9" (201 mm)  
 C = 19.6" (498 mm)  
 D = 26.5" (674 mm)



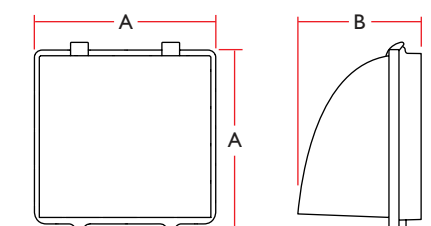
#### 175 WATT

A = 14.4" (366 mm)  
 B = 6.3" (160 mm)  
 C = 15.5" (393 mm)  
 D = 20.9" (532 mm)

### Wall Pack Aviator

#### 175 WATT

A = 11.9" (302 mm)  
 B = 8.1" (206 mm)



KEY FEATURES AND BENEFITS

# Large Aviator

The new Large Aviator is rated for up to 1000 Watt metal halide. Available with Type III, Type IV or square Type V optics. With vertical lamp design, this robust luminaire places the ballast either in the mounting arm or post-top hub assembly, for exceptionally cool operation of the ballast and other electrical components. Tool-less entry, ballast trays and rotatable optics complete the package of features most asked for by lighting designers and engineers.



**TOOL-LESS ENTRY**

Proprietary door-frame latching system allows easy access and servicing of lamp for normal maintenance. Door-frame is low-copper aluminum to resist corrosion.



**EASY ACCESS HINGE AND LENS**

The luminaire door is attached to the housing with a patented internal hinge assembly allowing for easy removal of the doorframe, if required. A high temperature silicone gasket seals the optical system from dirt and debris (IP65). The flat glass lens achieves the desired full-cutoff classification.

**FULL CUTOFF DESIGN**

IESNA Type III, Type IV and Type V distributions are available and all meet IESNA Full Cutoff classification. Type III and Type IV optics are rotatable while the Type V is fixed.

PERFORMANCE

FIXTURE	OPTIC DESCRIPTION	POLE HEIGHT*	FIXTURE HEIGHT AFG	SPACING LATERAL	SPACING FACE-TO-FACE	LAMP WATTAGE	AVG	MAX	MIN	AVG:MIN	MAX:MIN
Large	Type III	30 Feet (9.1 m)	32 Feet (9.75 m)	6 Times MH	5 Times MH	1000 Watt	3.85 (41.4 lux)	11.80 (127 lux)	1.20 (12.9 lux)	3.21	9.83
Large	Type IV	30 Feet (9.1 m)	32 Feet (9.75 m)	5 Times MH	6 Times MH	1000 Watt	4.09 (44.0 lux)	12.70 (136.7 lux)	1.40 (15.0 lux)	2.92	9.07
Large	Type V	30 Feet (9.1 m)	34 Feet (10.4 m)	6 Times MH	6 Times MH	1000 Watt	2.19 (23.5 lux)	4.80 (51.6 lux)	0.60 (6.5 lux)	3.65	8.00

0.8 LLD applied for calculations to achieve mean lumens at grade.

\*Fixture height above finished grade (AFG) assumes a 2 foot (0.6 m) concrete base.

\*For the Type V distribution fixture height above finished grade (AFG) assumes a 2 foot (0.6 m) concrete base and a Yoke mount.



**DIE-CAST, SINGLE-PIECE HOUSING**

Seamless die-cast aluminum optic housing provides years of rugged, maintenance-free service. The ballast compartments are engineered to provide very cool ballast operation. In the side mount arm configuration, the ballast and other electrical components are located within the side arm. In the post-top mount configuration, the ballast is within the post-top hub.

**QUICK-CONNECT BALLAST TRAY**

In both the side arm and post-top mount configurations, the ballast and other electrical components are located on a one-piece tray for quick and easy connect and disconnect during installation and maintenance. Access to the ballast compartments requires nothing more than a screwdriver. Ballast compartments shown are with CWA gear.



**7-YEAR FINISH WARRANTY**

Exclusive Colorfast DeltaGuard™ finish provides extra corrosion protection, with an electrically deposited epoxy primer and ultra-durable polyester topcoat.

**PREMIUM VERTICAL LAMP OPTICS**

Vertical lamps deliver improved performance in both life and lumen maintenance over horizontal lamps. The Aviator features premium reflector materials utilized in a segmented optical reflector design. This combination delivers excellent streetside efficiency, superior backlight control and greatly improved uniformity demanded by lighting specifiers.



**SIDE-ARM OR POST-TOP MOUNT**

Select side arm mount (above) for Type III or IV area lighting, or post-top mount (right) for Type V Square lighting. Both mounts include features for labor-saving installation.

**40° C PERFORMANCE**

All components are mounted to maximize heat transfer and maintain the coolest possible ballast operating temperatures, allowing for a 40° C ambient operation rating. UL, C-UL and CE listed for wet locations. Other approvals and certifications are also available; consult your local affiliate.

KEY FEATURES AND BENEFITS

# Medium and Small Aviator

The Medium Aviator is rated for up to 400 Watt metal halide, while the Small Aviator is rated for up to 175 Watt metal halide. Both are available with Type III and Type IV full cutoff optics. This robust horizontal lamp designed luminaire places the ballast and other electrical components in the mounting arm for exceptionally cool operation. Tool-less entry, ballast trays and a 7-year finish warranty complete the package of features most asked for by lighting designers and engineers.



**EASY ACCESS HINGE AND LENS**  
The luminaire door is attached to the housing with a patented internal hinge assembly allowing for easy removal of the doorframe, if required. A high temperature silicone gasket seals the optical system from dirt and debris (IP65).

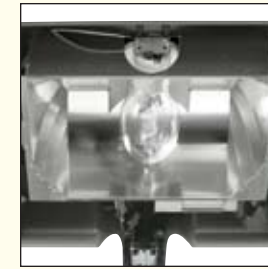


**QUICK-CONNECT BALLAST TRAY**  
One-piece, field replaceable electrical ballast tray allows for quick connect and disconnect, easing both installation and maintenance.

## PERFORMANCE

FIXTURE	OPTIC DESCRIPTION	POLE HEIGHT*	FIXTURE HEIGHT AFG	SPACING LATERAL	SPACING FACE-TO-FACE	LAMP WATTAGE	AVG	MAX	MIN	AVG:MIN	MAX:MIN
Medium	Type III	25 Feet (7.6 m)	27 Feet (8.2 m)	6 Times MH	4 Times MH	320 Watt	1.55 (16.7 lux)	4.10 (44.1 lux)	0.60 (6.5 lux)	2.58	6.83
Medium	Type IV	25 Feet (7.6 m)	27 Feet (8.2 m)	3.5 Times MH	5 Times MH	320 Watt	2.70 (29.0 lux)	8.40 (90.3 lux)	0.90 (9.7 lux)	3.00	9.33
Small	Type III	15 Feet (4.6 m)	17 Feet (5.2 m)	6 Times MH	4 Times MH	150 Watt	2.12 (22.8 lux)	4.40 (47.3 lux)	0.90 (9.7 lux)	2.36	4.89
Small	Type IV	15 Feet (4.6 m)	17 Feet (5.2 m)	3.5 Times MH	5 Times MH	150 Watt	3.25 (35.0 lux)	9.30 (100.0 lux)	1.10 (11.8 lux)	2.95	8.45

0.8 LLD applied for calculations to achieve mean lumens at grade.  
\*Fixture height above finished grade (AFG) assumes a 2 foot concrete base.



**PREMIUM OPTICS**  
Horizontal lamp with premium reflector materials in a segmented reflector design. This combination delivers excellent streetside efficiency, superior backlight control and greatly improved uniformity demanded by lighting specifiers.

**FULL CUTOFF DESIGN**  
IESNA Type III and Type IV distributions are available. All meet IESNA Full Cutoff classification.

**DIE-CAST, SINGLE-PIECE HOUSING**  
The low-copper aluminum housing with integrated mounting arm helps the luminaire resist corrosion.



**40° C PERFORMANCE**  
All components are mounted to maximize heat transfer and maintain the coolest possible ballast operating temperatures, allowing for a 40° C ambient operation rating. UL, C-UL and CE listed for wet locations. Other approvals and certifications are also available; consult your local affiliate.

**7-YEAR FINISH WARRANTY**  
Exclusive Colorfast DeltaGuard™ finish provides extra corrosion protection, with an electrically deposited epoxy primer and ultra-durable polyester topcoat.



**TOOL-LESS ENTRY**  
Proprietary door-frame latching system allows easy access and servicing of lamp for normal maintenance.

## KEY FEATURES AND BENEFITS

# Wall Pack Aviator

The new Wall Pack Aviator is rated for up to a 175 Watt metal halide lamp. The luminaire is designed with today's dark sky compliance codes in mind as it meets the IESNA Full Cutoff classification. The housing is die-cast from low-copper aluminum alloy and finished with our ultra-durable Colorfast DeltaGuard™ finish, providing the best protection against corrosion in the lighting industry.

This robust vertical lamp designed luminaire has many excellent features not commonly found in a luminaire of this type. The luminaire assembly consists of three components: 1) a wall mount box, 2) the back plate with electrical components and 3) the cover. This system allows for the easiest installation possible, shortening installation time and saving significant labor cost.



### WALL MOUNT BOX

The one-piece wall mount box features keyhole slots for easy positioning over 4-inch square, octagonal or single gang J-boxes. The box also accommodates 1/2 inch conduit from above, sides and rear.



### EASY WIRING

Single-piece back plate contains all electrical components. Once the mounting bracket is secured to the wall, the back plate slips over the bracket allowing wiring to be performed with no additional support.

## PERFORMANCE

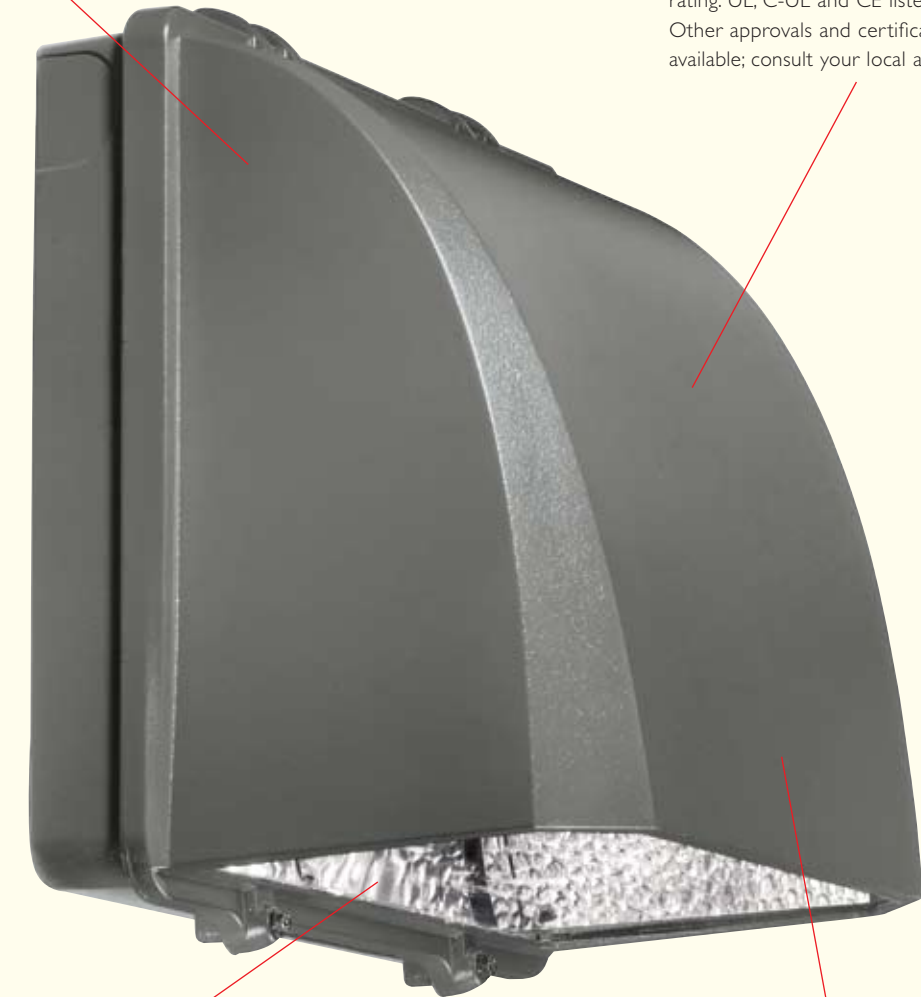
Typical Wall Mount lateral spacing is 4 times the mounting height while the forward throw is 2 times the mounting height.

### SINGLE-PIECE, DIE-CAST HOUSING

A single-piece, die-cast door and lens assembly attaches to the back plate by a hinge mechanism. The lens is flat tempered glass. A silicone gasket ensures a lifetime seal against incursion by water, dirt and insects (IP65).

### 40° C PERFORMANCE

All components are mounted to maximize heat transfer and maintain the coolest possible ballast operating temperatures, allowing for a 40° C ambient operation rating. UL, C-UL and CE listed for wet locations. Other approvals and certifications are also available; consult your local affiliate.



### PREMIUM VERTICAL LAMP OPTICS

Vertical lamps provide improved performance (both life and lumen maintenance) over horizontal lamps. The Aviator also features premium reflector materials utilized in a segmented optical reflector design. This combination delivers better optical control, improved uniformity and luminaire efficiency.

### 7-YEAR FINISH WARRANTY

Exclusive Colorfast DeltaGuard™ finish provides extra corrosion protection, with an electrically deposited epoxy primer and ultra-durable polyester topcoat.

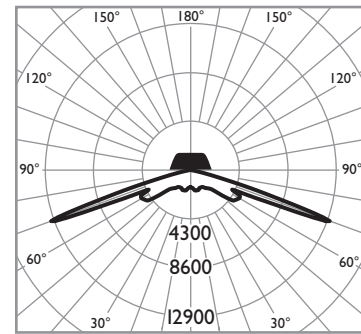
### FULL CUTOFF DESIGN

All Aviator family luminaires meet the IESNA Full Cutoff classification.

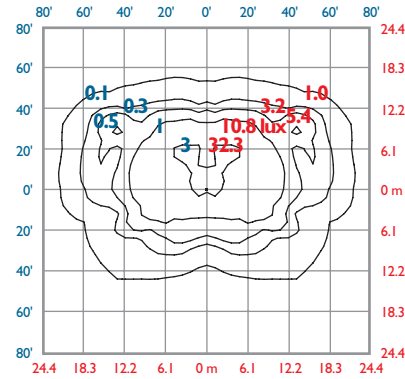
# Photometric Data

## SMALL AVIATOR TYPE III HORIZONTAL

**LEFT:** Candlepower distribution curve of 150W PSMH.

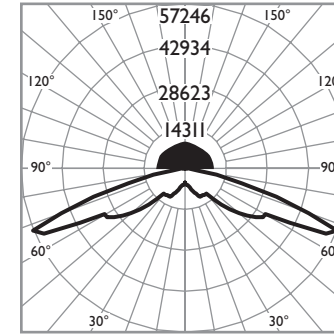


**RIGHT:** Isofootcandle plot of 150W PSMH at 20' (6.1 m) mounting height and 0° vertical tilt. (Plan view)

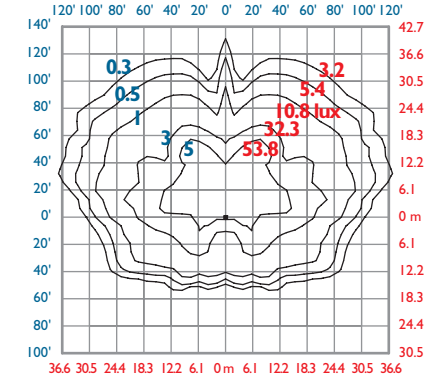


## LARGE AVIATOR TYPE III VERTICAL

**LEFT:** Candlepower distribution curve of 1000W MH Type III.

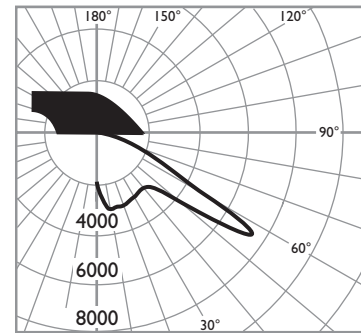


**RIGHT:** Isofootcandle plot of 1000W MH Type III at 32' (9.7 m) AFG [30' (9.1 m) pole plus 2' (0.6 m) base height].

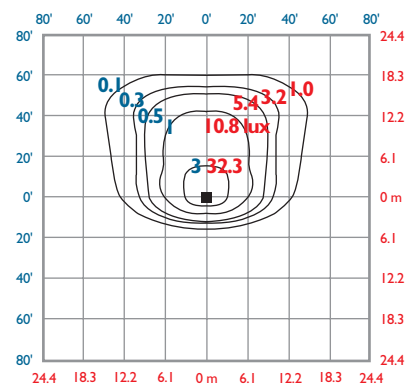


## SMALL AVIATOR TYPE IV HORIZONTAL

**LEFT:** Candlepower distribution curve of 175W with backlight shield located for backlight cutoff.

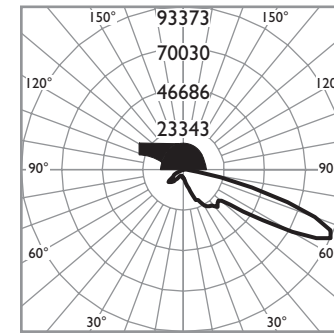


**RIGHT:** Isofootcandle plot of 175W MH at 20' (6.1 m) mounting height, 0° vertical tilt, with backlight shield located for backlight cutoff. (Plan view)

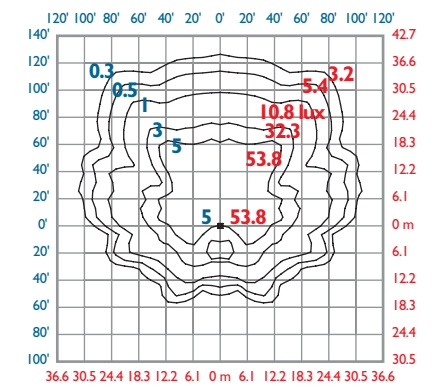


## LARGE AVIATOR TYPE IV VERTICAL

**LEFT:** Candlepower distribution curve of 1000W MH Type IV.

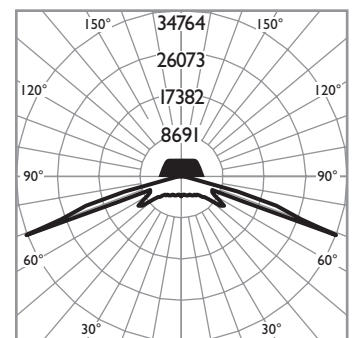


**RIGHT:** Isofootcandle plot of 1000W MH Type IV at 32' (9.7 m) AFG [30' (9.1 m) pole plus 2' (0.6 m) base height].

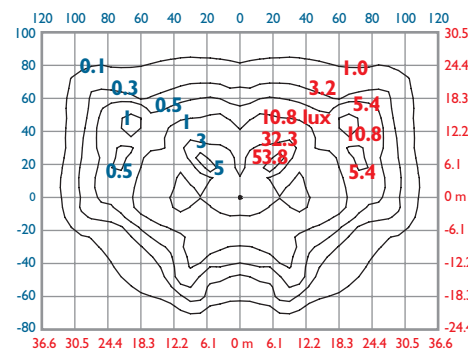


## MEDIUM AVIATOR TYPE III HORIZONTAL

**LEFT:** Candlepower distribution curve of 400W PSMH.

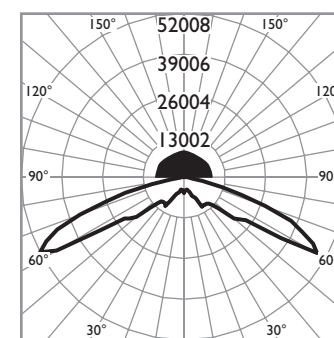


**RIGHT:** Isofootcandle plot of 400W PSMH at 30' (9.1 m) mounting height and 0° vertical tilt. (Plan view)

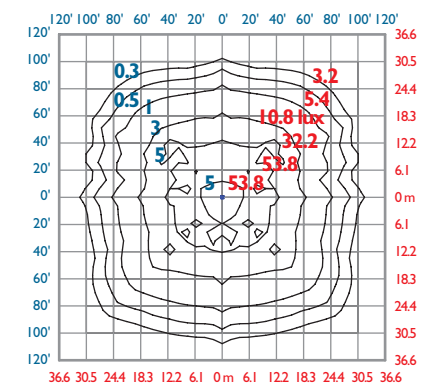


## LARGE AVIATOR TYPE V VERTICAL

**LEFT:** Candlepower distribution curve of 1000W MH Type V.

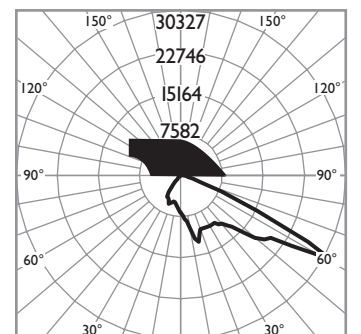


**RIGHT:** Isofootcandle plot of 1000W MH Type V at 32' (9.7 m) AFG [30' (9.1 m) pole plus 2' (0.6 m) base height].

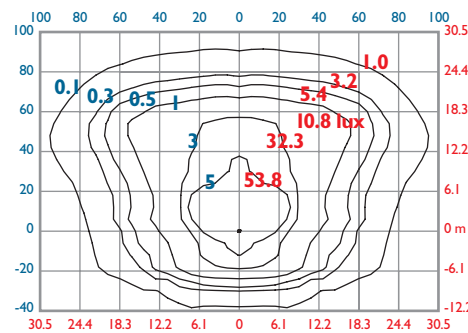


## MEDIUM AVIATOR TYPE IV HORIZONTAL

**LEFT:** Candlepower distribution curve of 400W PSMH without backlight shield.

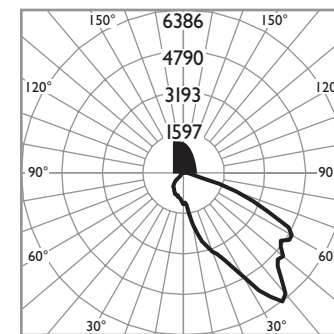


**RIGHT:** Isofootcandle plot of 400W PSMH at 30' (9.1 m) mounting height, 0° vertical tilt, without backlight shield removed. (Plan view)

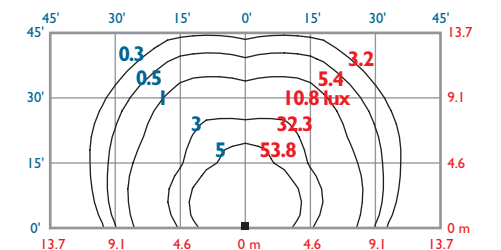


## WALL PACK AVIATOR FULL CUTOFF VERTICAL

**LEFT:** Candlepower distribution curve of 175W MH.

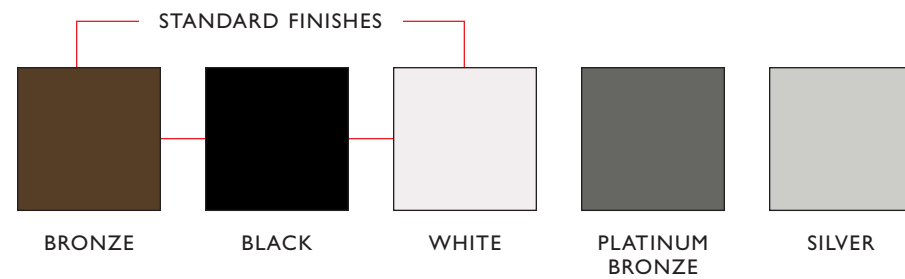


**RIGHT:** Isofootcandle plot of 175W MH at 15' (4.6 m) mounting height.



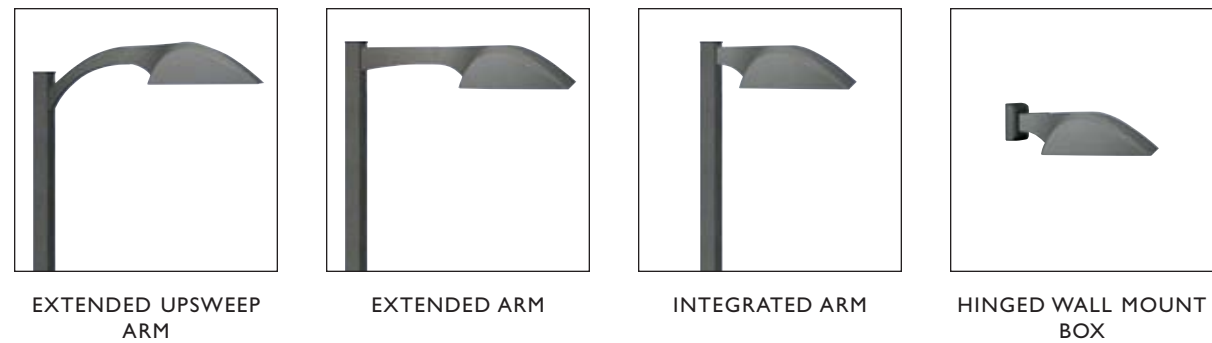
## Colors & Finishes

The Aviator's unique Colorfast DeltaGuard™ paint and finish system delivers a wide range of color options for your consideration and is covered by a full 7-year warranty.



## Mountings

The Small and Medium Aviators are available with either a wall mounting or three possible arms for pole mounting. The arm mounting options shown below can be mounted to both square and round poles (with a round pole adaptor). The mounting hardware supplied with these options saves both time and labor during installation.

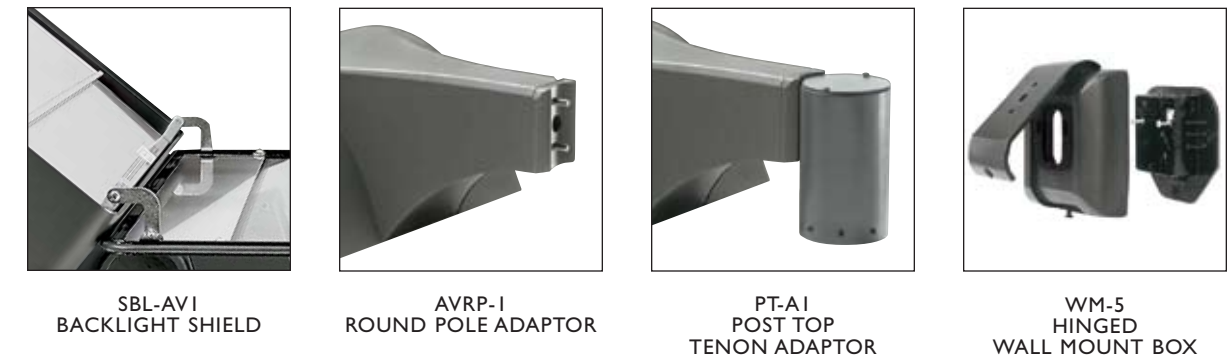


The Large Aviator is available with either a post top or a side arm mount. The side arm mount utilizes captive hardware and a special mounting plate to save time and labor during installation.



## Accessories

Accessories for Small and Medium Aviators include the backlight shield, round pole adaptor, post top adaptor and the wall mount box.



The Large Aviator has a round pole adaptor available as an accessory.



# Product Ordering Number System

The following describes our product ordering/numbering system. If you have a specific need or require help, please call one of our representatives for assistance.

## ORDER CODE LOGIC

### SMALL AVIATOR

M	AV	H	4	0	6	15 -	4	F	BK
<b>M</b> = Small housing	<b>Product Family</b> AV = Aviator	<b>Lamp Orientation</b> H = Horizontal	<b>Optical Systems</b> 3 = Parking/Roadway (Type III) 4 = Forward Throw (Type IV)	<b>Mounting Options</b> 0 = Integrated Arm	<b>Lamps/Ballasts</b> 4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	<b>Wattages</b> 03 = 35 Watt HPS 05 = 50 Watt PSMH/HPS 07 = 70 Watt PSMH/HPS 10 = 100 Watt PSMH/HPS 15 = 150 Watt PSMH/HPS 17 = 175 Watt PSMH/MH <i>(Other wattages available – consult factory)</i>	<b>Ballast Voltages</b> M = Multi-tap (120/208/240/277 V) D = Dual volt (120/277 V) T = Tri-volt (120/277/347 V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt 50 = 220-240V (50Hz) 52 = 220V (50Hz) 53 = 230V (50Hz) 54 = 240V (50Hz)	<b>Options (Factory Installed)</b> F = Fuse P = Photocell -5P = External Photocell (480V) Q = Quartz Standby  <i>Note: The F and P options require the selection of a single voltage ballast.</i>	<b>Color Options</b> BZ = Bronze BK = Black WH = White PB = Platinum Bronze SV = Silver

### MEDIUM AVIATOR

AV	H	4	0	6	40 -	2	P	BZ
<b>Product Family</b> AV = Aviator	<b>Lamp Orientation</b> H = Horizontal	<b>Optical Systems</b> 3 = Parking/Roadway (Type III) 4 = Forward Throw (Type IV)	<b>Mounting Options</b> 0 = Integrated Arm	<b>Lamps/Ballasts</b> 4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	<b>Wattages</b> 17 = 175 Watt PSMH/MH 25 = 250 Watt PSMH/MH/HPS 32 = 320 Watt PSMH 40 = 400 Watt PSMH/MH/HPS <i>(Other wattages available – consult factory)</i>	<b>Ballast Voltages</b> M = Multi-tap (120/208/240/277 V) D = Dual volt (120/277 V) T = Tri-volt (120/277/347 V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt 50 = 220-240V (50Hz) 52 = 220V (50Hz) 53 = 230V (50Hz) 54 = 240V (50Hz)	<b>Options (Factory Installed)</b> F = Fuse P = Photocell -5P = External Photocell (480V) Q = Quartz Standby  <i>Note: The F and P options require the selection of a single voltage ballast.</i>	<b>Color Options</b> BZ = Bronze BK = Black WH = White PB = Platinum Bronze SV = Silver

## ORDER CODE LOGIC

### LARGE AVIATOR

AV	V	4	R	6	99 -	M	P	BK
<b>Product Family</b> AV = Aviator	<b>Lamp Orientation</b> V = Vertical	<b>Optical Systems</b> 3 = Parking/Roadway (Type III) 4 = Forward Throw (Type IV) 5 = Quadrate (Type V)	<b>Mounting Options</b> 0 = Side Arm Mount with optic in standard configuration L = Side Arm Mount with optic rotated properly to install fixture rotated 90° to the left of standard configuration R = Side Arm Mount with optic rotated properly to install fixture rotated 90° to the right of standard configuration F = Round Tube Center Tenon (Tenon Fitter for 2-3/8" up to 3" O.D.) H = Round Tube Center (Direct Fitter for 4" Square Pole) I = Round Tube Center (Direct Fitter for 5" Square Pole) J = Round Tube Center (Direct Fitter for 6" Square Pole)	<b>Lamps/Ballasts</b> 4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	<b>Wattages</b> 75 = 750 Watt PSMH 99 = 1000 Watt PSMH/MH/HPS 925 = 250 Watt PSMH (Large Aviator) 932 = 320 Watt PSMH (Large Aviator) 935 = 350 Watt PSMH (Large Aviator) 940 = 400 Watt PSMH (Large Aviator)  <i>(Other wattages available – consult factory)</i>	<b>Ballast Voltages</b> M = Multi-tap (120/208/240/277 V) D = Dual volt (120/277 V) T = Tri-volt (120/277/347 V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt 50 = 220-240V (50Hz) 52 = 220V (50Hz) 53 = 230V (50Hz) 54 = 240V (50Hz)	<b>Options (Factory Installed)</b> F = Fuse P = Photocell -5P = External Photocell (480V) Q = Quartz Standby  <i>Note: The F and P options require the selection of a single voltage ballast.</i>	<b>Color Options</b> BZ = Bronze BK = Black WH = White PB = Platinum Bronze SV = Silver

### WALL PACK AVIATOR

M	GWC	0	4	15	53	P	BK
<b>M</b> = Mini	<b>Optical Systems</b> GWC = Full Cutoff EZ Wall Pack	<b>Mounting Options</b> 0 = Direct Mount	<b>Lamps/Ballasts</b> 4 = Probe Start Metal Halide 5 = High Pressure Sodium 6 = Pulse Start Metal Halide	<b>Wattages</b> 03 = 35 Watt HPS 05 = 50 Watt PSMH/HPS 07 = 70 Watt PSMH/HPS 10 = 100 Watt PSMH/HPS 15 = 150 Watt PSMH/HPS 17 = 175 Watt PSMH/MH  <i>(Other wattages available – consult factory)</i>	<b>Ballast Voltages</b> MT = Multi-tap (120/208/240/277 V) D = Dual volt (120/277 V) T = Tri-tap (120/277/347 V) 1 = 120 Volt 2 = 277 Volt 27 = 277 Volt 3 = 208 Volt 4 = 240 Volt 5 = 480 Volt 6 = 347 Volt 50 = 220-240V (50Hz) 52 = 220V (50Hz) 53 = 230V (50Hz) 54 = 240V (50Hz)	<b>Options (Factory Installed)</b> F = Fuse P = Photocell -5P = External Photocell (480V) Q = Quartz Standby  <i>Note: The F and P options require the selection of a single voltage ballast.</i>	<b>Color Options</b> BZ = Bronze BK = Black WH = White PB = Platinum Bronze SV = Silver

Footnotes  
 1) 50 Hertz ballasts available, call for information.  
 2) All D, M and T voltage suffix ballasts are set to the highest voltage.  
 3) Fuse and Photocell options require the selection of a single volt ballast.  
 4) Q Option (Quartz Standby) – Delay Relay type includes a 100W quartz lamp.  
 5) Q Option (Quartz Standby) – Not available in 277 volts.