

# H.I.D. AREA LIGHTING

## AER SERIES-HID

### S P E C I F I C A T I O N S

#### HOUSING

Heavy cast low copper aluminum assembly (A356 alloy, <0.2% copper - AERM; A360 alloy, <0.4% copper - AER and AER-G) with integral cooling ribs above the electrical compartment. Minimum wall thickness is .188". Housing attaches to pole via a one piece, extruded aluminum arm with centering guides for internal draw bolts and a gasketed wiring access door. Housing/pole junction is gasketed. All exposed hardware is stainless steel. Internal protected hardware is electro-zinc plated.

#### LENS ASSEMBLY

One piece cast aluminum lens frame (A356 alloy; <0.2% copper - AERM; A360 alloy, <0.4% copper - AER and AER-G) with integral stainless steel hinge. Tool-less twist to release latch provides positive locking and sealing of the optical chamber by a one piece silicone gasket with ends fused to form a continuous loop. Clear 3/16" thick tempered glass lens retained by stainless steel clips and sealed with self-leveling silicone bonding and sealing adhesive.

#### REFLECTOR MODULE

Specular Alzak® optical segments rigidly mounted in an aluminum frame, which attaches to the housing as a one piece module. Reflector module is field rotatable in 90° increments. All sockets are porcelain 4KV pulse rated, pin-oriented mogul base (5KV in 1000HPS models). Reflector modules are factory prewired with a quick-disconnect plug.

#### ELECTRICAL COMPONENTS

All electrical components are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame. Electronic MH ballasts have power factor of >.95 (70W - 150W) -20°F starting, 120-277V; or >.90 (250W - 400W), -20°F starting, 200-277V, 50Hz/60Hz and have lamp End-of-life protection. 347V option utilizes a step down transformer to the electronic ballast. Special for Philips MasterColor CDM Elite: Electronic MH ballast has a power factor of >.90 (210W & 315W), -4°F starting, 200 - 277V, 50Hz/60Hz and has lamp End-of-life protection. All higher wattage (315W - 400W) electronic MH ballasts have 0 - 10V dimming capability. Magnetic MH ballasts are high power factor (70W - 150W, 575W) or CWA (250W - 1000W, excluding 575W), -20°F starting, multi-tap 120-277V or 480V, 60Hz. All HPS ballasts are core and coil, high-reactance, high power factor (70W - 150W) or CWA (200W - 100W), -40°F starting.

#### FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140° F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

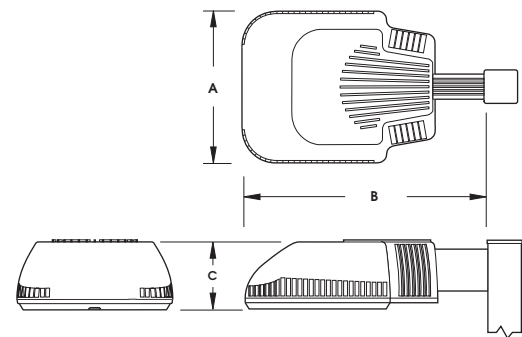
PROJECT NAME: \_\_\_\_\_

FIXTURE TYPE: \_\_\_\_\_




**AER**

PATENT PENDING



FIXTURE	A	B	C
<b>AER-G</b>	23" 584mm	41" 1041mm	12" 305mm
<b>AER</b>	18" 457mm	29" 737mm	8" 203mm
<b>AERM</b>	13.5" 343mm	25" 635mm	6.5" 165mm

 Light Pollution Control Classification System  
Full cutoff 0% Uplight Luminaire

 U.L. Listed for wet location

MADE IN THE  
**USA**

2014218

U.S. Architectural Lighting

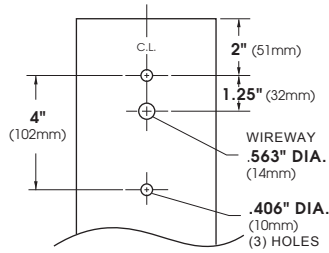
660 West Avenue O, Palmdale, CA 93551  
Phone (661) 233-2000 Fax (661) 233-2001  
www.usallg.com

**U.S. ARCHITECTURAL**  
**LIGHTING**

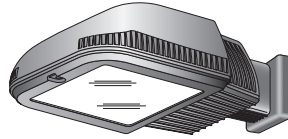
# AER SERIES - HID

## S P E C I F I C A T I O N S

### POLE DRILLING TEMPLATE

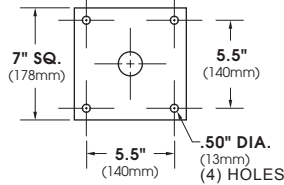


### WALL MOUNT

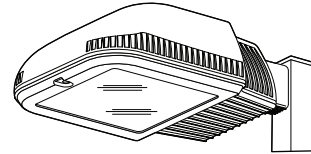


EXTRUDED ALUMINUM ARM AND CAST ALUMINUM WALL BRACKET ASSEMBLY PROVIDED WITH BUILT IN GASKETED WIRE ACCESS FOR FIXTURE/SUPPLY WIRE CONNECTION.

### WALL PLATE



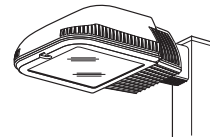
### E.P.A. & LAMP WATTAGE



**AER-G** E.P.A. = 2.75



**AER** E.P.A. = 1.40



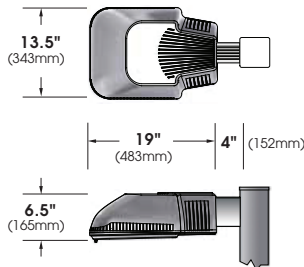
**AERM** E.P.A. = .91

### LAMP SIZE

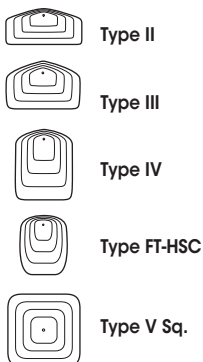
FIXTURE	MAX WATTAGE
AER-G	1000W
AER	400W
AERM	150W

## O V E R V I E W

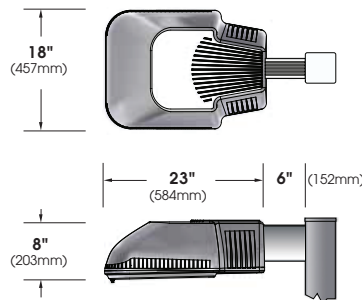
### MINI-AEROLUME



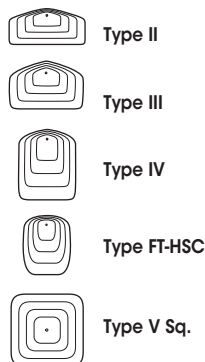
### Light Distributions



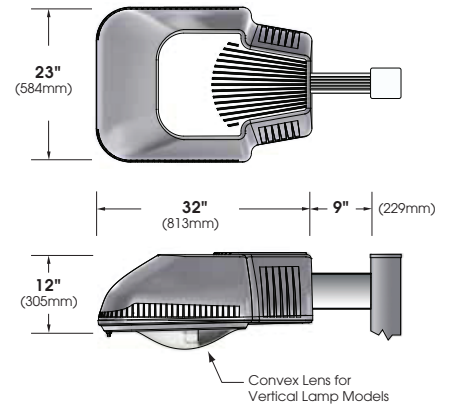
### AEROLUME



### Light Distributions

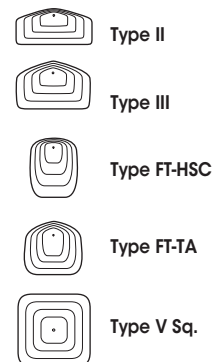


### AEROLUME-G

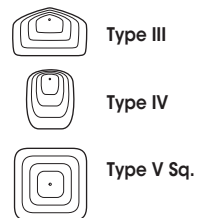


### Light Distributions

#### Horizontal Lamp



#### Vertical Lamp



# AER SERIES - HID

Spec/Order Example: AER/HR-II/400PSMH208/2-90/RAL6005-T/TPC+V

## SPEC / ORDERING INFORMATION

MODEL	OPTICS	WATTAGE	TYPE	VOLTAGE	MOUNTING	FINISH	OPTIONS
<input type="checkbox"/> <b>AER-G</b> Aerolume Large	<b>HORIZONTAL LAMP</b> <input type="checkbox"/> TYPE II <b>HR-II</b> ..... <input type="checkbox"/> TYPE III <b>HR-III</b> ..... <input type="checkbox"/> TYPE IV WIDE <b>HR-IV-W</b> ..... <input type="checkbox"/> TYPE FT-HSC (REAR CUTOFF) <b>HR-FT-HSC</b> ..... <input type="checkbox"/> TYPE FT-TA (TENNIS/AUTO) <b>HR-FT-TA</b> ..... <input type="checkbox"/> TYPE V <b>HR-V-SQ</b> .....  <b>VERTICAL LAMP</b> <input type="checkbox"/> TYPE III <b>VR-III</b> ..... <input type="checkbox"/> TYPE IV <b>VR-IV</b> ..... <input type="checkbox"/> TYPE V <b>VR-V-SQ</b> .....	<b>MOGUL BASE</b> <input type="checkbox"/> 1000 <input type="checkbox"/> 875 <input type="checkbox"/> 750 <input type="checkbox"/> 575 <input type="checkbox"/> 450 <input type="checkbox"/> 400  <input type="checkbox"/> 1000 <input type="checkbox"/> 750 <input type="checkbox"/> 600 <input type="checkbox"/> 400  <input type="checkbox"/> PSMH  <input type="checkbox"/> HPS	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480  <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	<b>ARM MOUNT</b> <input type="checkbox"/> 1..... <input type="checkbox"/> 2-180..... <input type="checkbox"/> 2-90..... <input type="checkbox"/> 3-90..... <input type="checkbox"/> 4-90..... <input type="checkbox"/> 3-120.....  <b>WALL MOUNT</b> <input type="checkbox"/> WM.....  <b>ADJUSTABLE KNUCKLE</b> <input type="checkbox"/> NKLE23..... (TO FIT OVER 2 3/8" O.D.) <input type="checkbox"/> NKLE27..... (TO FIT OVER 2 7/8" O.D.)  ADJUSTABLE KNUCKLE NOT TO BE USED WITH SLX ARM	<b>STANDARD TEXTURED FINISH</b> <input type="checkbox"/> BLACK <b>RAL-9005-T</b>  <input type="checkbox"/> WHITE <b>RAL-9003-T</b>  <input type="checkbox"/> GREY <b>RAL-7004-T</b>  <input type="checkbox"/> DARK BRONZE <b>RAL-8019-T</b>  <input type="checkbox"/> GREEN <b>RAL-6005-T</b>  FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S)  SEE USALTG.COM FOR ADDITIONAL COLORS	<input type="checkbox"/> INTERNAL HOUSE SIDE SHIELD .... <b>HS</b>  <input type="checkbox"/> EXTERNAL HOUSE SIDE SHIELD .... <b>EHS</b>  <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) ... <b>PC+V</b>  <input type="checkbox"/> TWIST LOCK PHOTO CELL+VOLTAGE (EXAMPLE TPC120V) ... <b>TPC+V</b>  <input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY ..... <b>TPR</b>  <input type="checkbox"/> SINGLE FUSE (120V. , 277V) ..... <b>SF</b>  <input type="checkbox"/> DOUBLE FUSE (208V. , 240V) ..... <b>DF</b>  <input type="checkbox"/> CAST ALUMINUM ARM . . <b>SLX</b> (USED IN LIEU OF STANDARD ARM)  AVAILABLE IN THE FOLLOWING ARM MOUNT CONFIGURATIONS: 1, 2-180, 2-90, 3-90, 4-90, 3-120 (EXAMPLE: SLX-2-180)	
<input type="checkbox"/> <b>AER</b> Aerolume	<input type="checkbox"/> TYPE II <b>HR-II</b> ..... <input type="checkbox"/> TYPE III <b>HR-III</b> ..... <input type="checkbox"/> TYPE IV (FORWARD THROW) <b>HR-IV</b> ..... <input type="checkbox"/> TYPE FT (REAR CUTOFF) <b>HR-FT-HSC</b> ..... <input type="checkbox"/> TYPE V <b>HR-V-SQ</b> .....	<b>MOGUL BASE</b> <input type="checkbox"/> 400 <input type="checkbox"/> 350 <input type="checkbox"/> 320 <input type="checkbox"/> 250  <input type="checkbox"/> 400 <input type="checkbox"/> 250 <input type="checkbox"/> 200  <input type="checkbox"/> PSMH  <input type="checkbox"/> HPS  <b>PGZ18 Base</b> <input type="checkbox"/> 315T <input type="checkbox"/> 210T  <input type="checkbox"/> PSMH  <input type="checkbox"/> HPS	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480  <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347	<input type="checkbox"/> NKLE23..... (TO FIT OVER 2 3/8" O.D.) <input type="checkbox"/> NKLE27..... (TO FIT OVER 2 7/8" O.D.)  ADJUSTABLE KNUCKLE NOT TO BE USED WITH SLX ARM	FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S)  SEE USALTG.COM FOR ADDITIONAL COLORS	AVAILABLE IN THE FOLLOWING ARM MOUNT CONFIGURATIONS: 1, 2-180, 2-90, 3-90, 4-90, 3-120 (EXAMPLE: SLX-2-180)	
<input type="checkbox"/> <b>AERM</b> Mini-Aerolume	<input type="checkbox"/> TYPE II <b>HR-II</b> ..... <input type="checkbox"/> TYPE III <b>HR-III</b> ..... <input type="checkbox"/> TYPE IV (FORWARD THROW) <b>HR-IV</b> ..... <input type="checkbox"/> TYPE FT (REAR CUTOFF) <b>HR-FT-HSC</b> ..... <input type="checkbox"/> TYPE V <b>HR-V-SQ</b> .....	<b>MEDIUM BASE</b> <input type="checkbox"/> 150 <input type="checkbox"/> 100 <input type="checkbox"/> 70  <input type="checkbox"/> 150 <input type="checkbox"/> 100 <input type="checkbox"/> 70  <input type="checkbox"/> PSMH  <input type="checkbox"/> HPS  <b>G Base</b> <input type="checkbox"/> 150T <input type="checkbox"/> 70T  <input type="checkbox"/> PSMH  <input type="checkbox"/> HPS	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347  <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347	<input type="checkbox"/> NKLE23..... (TO FIT OVER 2 3/8" O.D.) <input type="checkbox"/> NKLE27..... (TO FIT OVER 2 7/8" O.D.)  ADJUSTABLE KNUCKLE NOT TO BE USED WITH SLX ARM	FOR SMOOTH FINISH REPLACE SUFFIX "T" WITH SUFFIX "S" (EXAMPLE: RAL-9500-S)  SEE USALTG.COM FOR ADDITIONAL COLORS	AVAILABLE IN THE FOLLOWING ARM MOUNT CONFIGURATIONS: 1, 2-180, 2-90, 3-90, 4-90, 3-120 (EXAMPLE: SLX-2-180)	