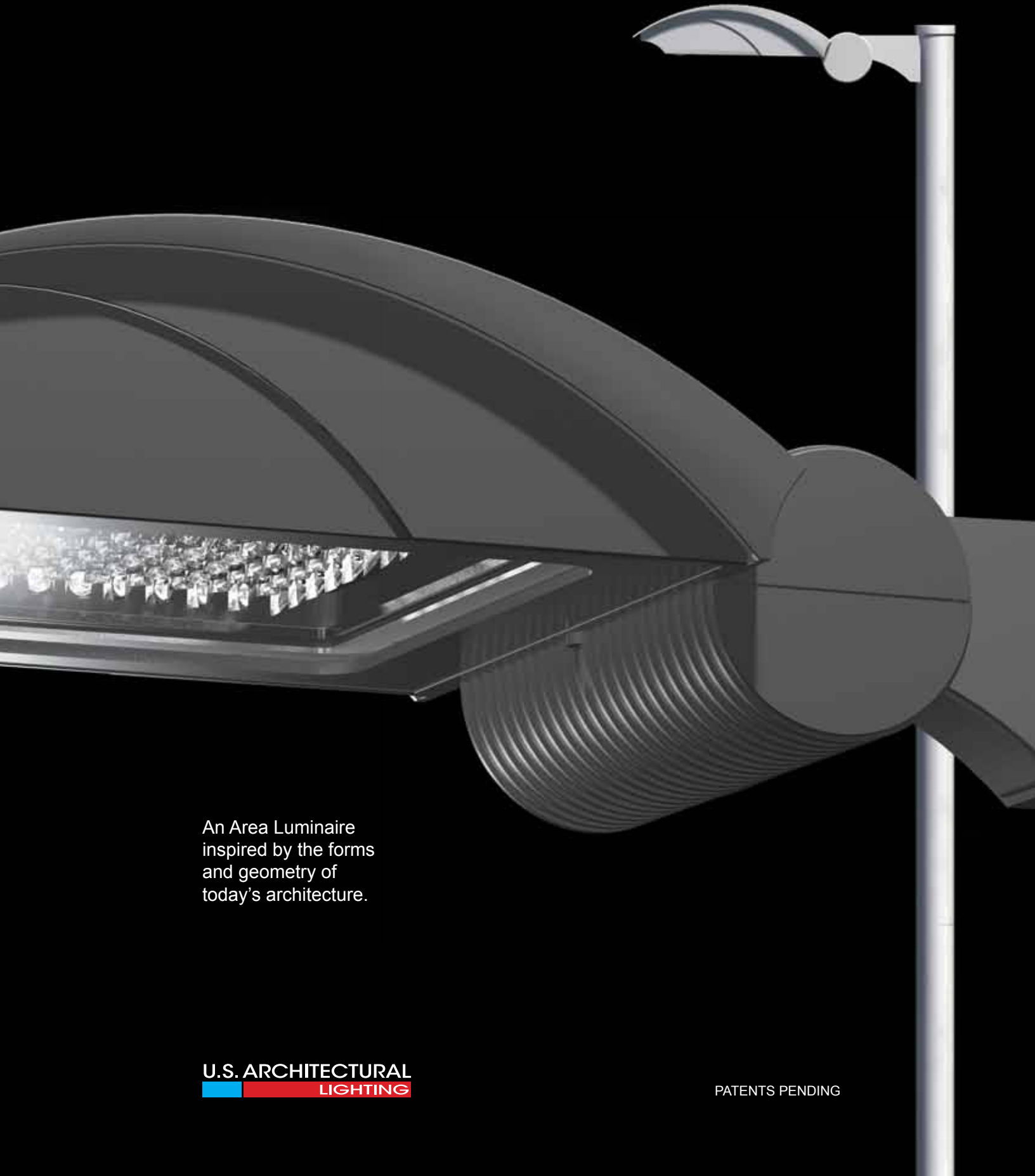


Tsunami™



An Area Luminaire
inspired by the forms
and geometry of
today's architecture.

U.S. ARCHITECTURAL
LIGHTING

PATENTS PENDING

Day

Tsunami™

Architecture is the backdrop for the vast majority of area luminaire installations. Therefore, it is important that the fixture design be complementary to the building in terms of basic form and character. Tsunami has been designed with the ability to visually blend into today's architecture by combining curvilinear and rectilinear forms, creating a sweeping and uplifting design. Its sculptural and futuristic character evokes unassuming strength, while it's low profile reduces overall visual impact on the site.



Night

Tsunami™

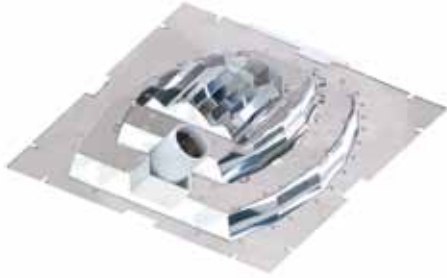
Just as Tsunami is designed for minimum visual impact by day, it is also engineered for minimum glare by night. Both the HID and **VLED™** optical systems are traditional full cutoff, but go beyond that in visual comfort. The optical components for HID and **VLED™** both minimize light in the high angle glare zones, and produce exceptional uniformity of illumination on the ground.

*Parking Lot: Tsunami
120VLED, Type III, 20' Pole*

*Pedestrian Areas: Tsunami Mini
64VLED, Type III, 12' Pole*



HID Optics



HID reflectors are fabricated from pre-finished 95% reflectance Miro sheet. Multiple vertical staging reduces the overall height to fit within the low profile fixture housing.

Tsunami



Mogul Base

E Lamp
 400PSMH 400HPS
 350PSMH 250HPS
 320PSMH
 250PSMH

PGZ Base

T Lamp
 310PSMH
 215PSMH

Tsunami Mini

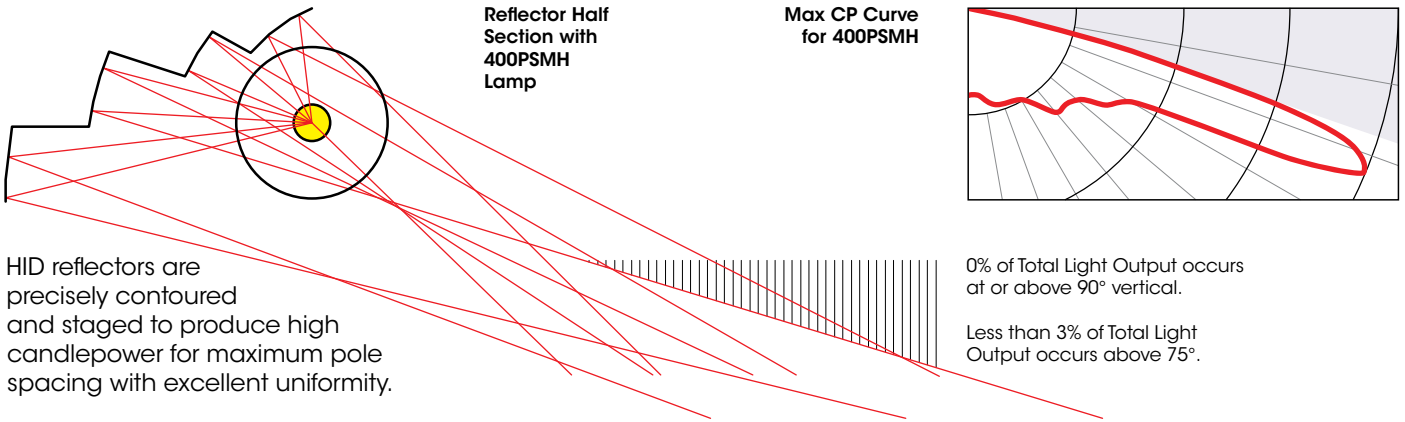


Medium Base

E Lamp
 150PSMH 150HPS
 100PSMH 100HPS
 70PSMH 70HPS

G Base

T Lamp
 150PSMH
 70PSMH
 39PSMH



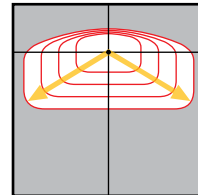
HID reflectors are precisely contoured and staged to produce high candlepower for maximum pole spacing with excellent uniformity.

Tsunami HID Optical Systems satisfy dark sky requirements. As such, they eliminate wasted upward light (energy), enhance visibility for safety and security, and contribute to a growing movement to bring back the star filled night sky.

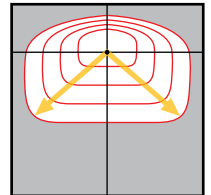


Standard IES light distributions are available to satisfy project requirements for illumination coverage with the least number of poles.

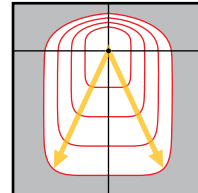
Type II



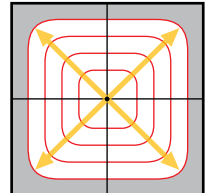
Type III



Type IV



Type V Sq.



✓LED™ Optics

Patent Pending See ✓LED™ Catalog for a complete presentation on the ✓LED™ System.



U.S. Architectural's ✓LED™ system is unique and innovative within the lighting industry. It is a self contained module, totally sealed from the elements, complete with LEDs, optics, heat sinks and a precise cast housing entirely sealed to meet IP67 rating by a tempered glass lens.

Tsunami

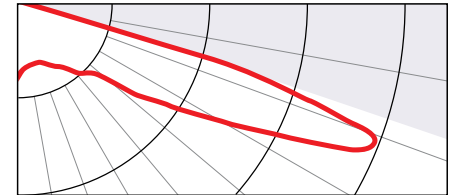
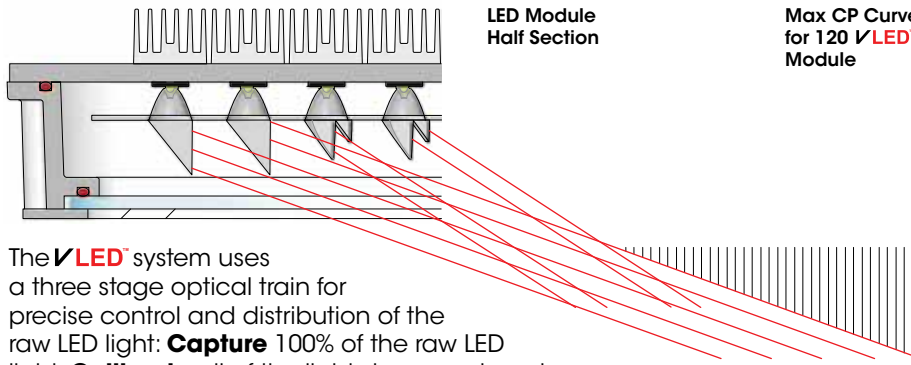


No. of LEDs	System Watts	HID Equivalent
120	141	250PSMH
80	94	150PSMH

Tsunami Mini



No. of LEDs	System Watts	HID Equivalent
64	75	100PSMH



0% of Total Light Output occurs at or above 90° vertical.

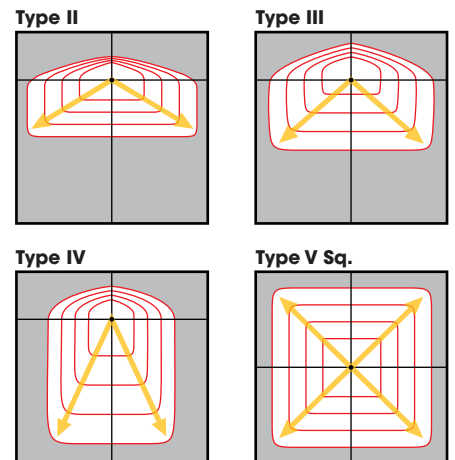
Less than 4% of Total Light Output occurs above 75°.

The ✓LED™ system uses a three stage optical train for precise control and distribution of the raw LED light: **Capture** 100% of the raw LED light; **Collimate** all of the light downward; and **Vector** the light outward to the area to be illuminated.



The ✓LED™ optical system satisfies dark sky requirements. Uniformity of illumination is superior with the ✓LED™ system due to its precise optics.

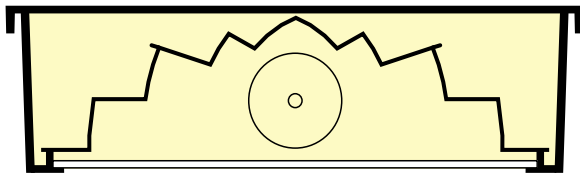
The same four standard IES light distributions are available as with the HID optical system.



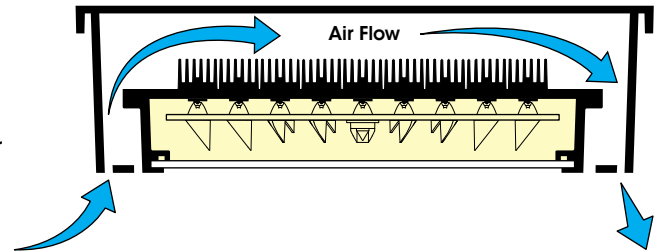
Engineering Features

Robust Components

The Tsunami housing components are all constructed of durable corrosion resistant precise low copper aluminum castings with 1/4" minimum wall thickness. Prior to finishing, all castings are sand blasted to create a uniform and clean surface for paint adhesion.



Sealed Chamber



HID Optics

All HID reflectors are unitized assemblies including the sockets. The entire housing is sealed by the lens frame and gasket, thus making the optical system impervious to moisture and airborne contaminants. The reflector is rotatable in 90 deg. increments for field orientation if required.

✓LED™ Optics

Because thermal control is so critical to LED life expectancy and output, ✓LED™ Optical Modules are sealed units that "float" within the housing. This allows natural air flow to enter the housing and flow around the LED Module heat sinks. (See ✓LED™ Catalog for details and data).

Tool-less Latch

Access to the lamp compartment is achieved by a single 2-stage button latch. The large button is depressed which disengages the door frame from the housing. Twisting the latch then fully releases the door frame, allowing it to swing away for easy lamp access.



HID Ballast



LED Ballast

Unitized Electrical Module

With all electrical components mounted on a plate, initial installation and future servicing becomes quick and simple. If desired, extra electrical modules can be kept on hand allowing immediate field replacement, while the old modules are repaired in the service area for future use. Down time is therefore minimal.



Dimensions

TSU

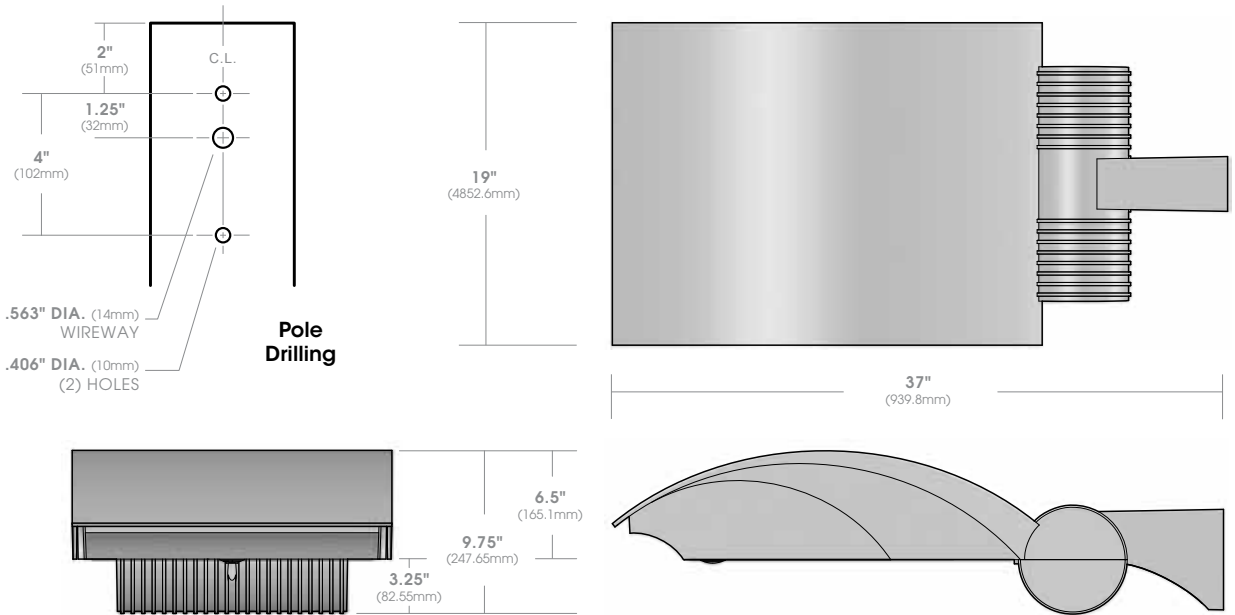
Tsunami

215-400W HID

80/120 VLED

EPA: 1.53

Max. Wt: 70lbs



TSUM

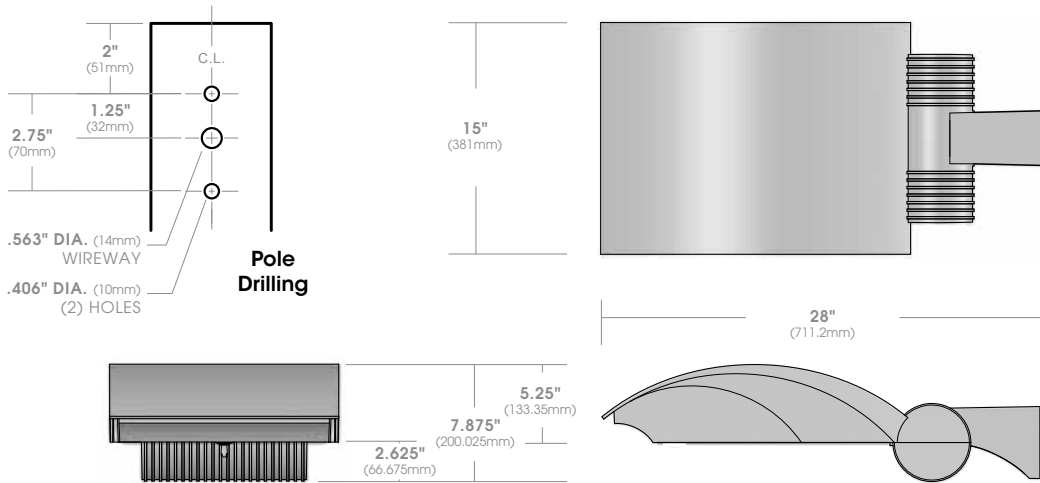
Tsunami Mini

39-150W HID

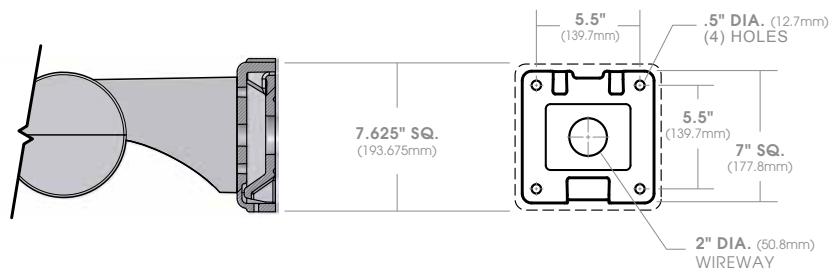
64 VLED

EPA: .96

Max. Wt: 55lbs



Wall Plate



Specifications

HID

Unitized Housing - Precise heavy wall low copper cast aluminum (A356 alloy; <0.2% copper) with integral cooling ribs surrounding the electrical compartment. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated with the support arm to create one assembly. Minimum wall thickness is 1/4". Cast and hinged ballast compartment cover is integrated with wiring compartment cover.

Lens Frame - Precise one piece cast aluminum lens frame minimum 5/8" cross section for rigidity with Integral stainless steel hinge. Tool-less push and turn latch provides positive locking and sealing of the optical chamber by a one piece extruded silicone EPDM gasket fused to form a continuous loop. Clear 3/16" tempered glass lens retained by eight stainless steel clips with full silicone gasketing around the perimeter.

Reflector Module - Specular Alzak® optical segments rigidly mounted in an aluminum frame, attaches to the housing to form a one piece module. Reflector module is field rotatable in 90° increments. All sockets are porcelain 4KV pulse rated, pin-oriented mogul (TSU) or medium based (TSUM). Reflector modules are factory prewired with quick-disconnect plug.

Electrical Module - 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 electrical compartment cover. Standard 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) or CWA (250W - 400W), -20°F starting, multi-tap 120-277V, 60Hz. All HPS ballasts are core and coil, high-reactance, high power factor (70W – 150W) or CWA (200W – 400W), -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. Texture finish is standard.



See VLED® Catalog for a complete presentation on the VLED System.

VLED® Module (Replaces Reflector Module) - Sealed LED Optical Module. Low copper A356 alloy (<.2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Entire module is IP67 rated. Emitters (LED's) are Luxeon Rebels, high output, Neutral White nominal 4100K CCT for the entire module (Cool White nominal 6500K are available). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, IES Type III, IES Type IV, and IES Type V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

Driver - VLED® drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Drivers are electronic and have a power factor of >.90 and a minimum operating temperature of -40°F. VLED® Drivers accept an input of 120-277V, 50/60Hz. (Consult factory for dimming applications)

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. Texture finish is standard.

Lamp / Electrical Guide

LAMP WATTS	LAMP TYPE	BULB TYPE	INITIAL LUMENS	LIFE (HOURS)	ANSI CODE	STARTING TEMP.	CIRCUIT TYPE	SYSTEM WATTS	VOLTS	MAX INPUT AMPS	MIN. FUSE AMPS	
PULSE START METAL HALIDE												
70	PSMH	Clear, ED17, Med. Base T6, G12 Base	5,900 6,600	24,000 12,000	M98 M139 M143	-20°F	Electronic	82	120	0.68	2	
								81	277	0.31	2	
							HX-HPF	90	120	1.90	4	
								90	277	0.80	2	
								90	347	0.70	2	
		94	347	0.65	2							
100	PSMH	Clear, ED17, Med Base	9,000	24,000	M90 M140	-20°F	Electronic	115	120	0.96	3	
								113	277	0.42	3	
							HX-HPF	129	120	2.30	6	
								129	277	1.00	3	
								129	347	1.00	2	
150	PSMH	Clear, ED17, Med Base T6, G12 Base	13,000 12,700	24,000 12,000	M102 M142	-20°F	Electronic	165	120	1.40	2	
								161	277	0.60	2	
							HX-HPF	185	120	3.70	4	
								185	277	1.60	2	
								185	347	1.30	2	
210	PSMH	Clear, T9, PGZ18 Base	23,000	20,000	C183/E	-4°F	Electronic	229 227	200 (208V) 277	1.20 0.90	3 3	
250	PSMH	Clear, ED28, Mog. Base Horiz. only	22,000	15,000	M138 M153	-20°F	Super CWA	291	120	2.50	8	
								291	277	1.10	3	
								291	347	0.90	3	
315	PSMH	Clear, T9, PGZ18 Base	36,200	20,000	C182/E	-4°F	Electronic	343 341	200 (208V) 277	1.80 1.30	3 3	
320	PSMH	Clear, ED28, Mog. Base Horiz. only	30,000	20,000	M132 M154 M170	-20°F	Electronic	345	200 (208V)	1.80	3	
								345	277	1.30	3	
							Super CWA	368	120	3.30	8	
								368	277	1.40	3	
								368	347	1.10	3	
350	PSMH	Clear, ED28, Mog. Base Horiz. only	33,000	20,000	M131 M170		Electronic	375	200 (208V)	1.90	3	
								375	277	1.40	3	
							Super CWA	400	120	3.40	10	
								400	277	1.50	5	
								400	347	1.20	3	
400	PSMH	Clear, ED28, Mog. Base Horiz. only	40,000	20,000	M135 M155 M172		Electronic	430	200 (208V)	2.20	3	
								430	277	1.60	3	
							Super CWA	452	120	3.80	10	
								452	277	1.70	5	
								450	347	1.40	4	
HIGH PRESSURE SODIUM												
70	HPS	Clear, BD17, Med. Base	6,300	24,000	S62	-40°F	HX-HPF	91	120	1.40	5	
									91	277	0.70	2
									93	347	0.60	2
100	HPS	Clear, BD17, Med. Base	9,500	24,000	S54	-40°F	HX-HPF	130	120	2.20	7	
									130	277	0.90	3
									130	347	0.70	3
150	HPS	Clear, BD17, Med. Base	16,000	24,000	S55	-40°F	HX-HPF	188	120	2.80	10	
									188	277	1.30	4
									188	347	0.90	3
200	HPS	Clear, ED18, Mog. Base	21,400	24,000	S66	-40°F	CWA	240	120	2.20	6	
									240	277	1.00	3
250	HPS	Clear, ED18, Mog. Base	27,000	24,000	S50	-40°F	CWA	295	120	2.50	7	
									295	277	1.10	3
									295	347	0.90	2
400	HPS	Clear, ED18, Mog. Base	50,000	24,000	S51	-40°F	CWA	464	120	3.80	10	
									464	277	1.70	5
									464	347	1.30	5
LED												
71	LED	64 LED Optical Module	3,437 - 3,740	70,000 - 140,000		-40°F		75	120 277	0.70 0.40		
88	LED	80 LED Optical Module	3,906 - 4,251	70,000 - 140,000		-40°F		94	120 277	0.80 0.40		
132	LED	120 LED Optical Module	5,240 - 5,808	70,000 - 140,000		-40°F		141	120 277	1.20 0.60		












NOTES:

1. U.S. Architectural Lighting's Lamp and Electrical Guide is for reference only. ALWAYS consult lamp and ballast manufacturer's data for exact technical specifications.
2. All Initial Lumen values shown are approximate in the vertical position and may vary from one manufacturer to another.
3. For HX-HPF circuits, Max Input Amps is the highest of starting, operating, or opening circuit currents. For CWA circuits, the figure is operating current.
4. Lumen values for LED Modules vary according to the distribution type












WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

Ordering

HID

MODEL	OPTICS	LAMP MODE	MOUNTING	FINISH	OPTIONS																																																																																				
<input type="checkbox"/> TSU Tsunami <input type="checkbox"/> TSUM Tsunami Mini	<input type="checkbox"/> TYPE II II  (segmented) <input type="checkbox"/> TYPE III III  (segmented) <input type="checkbox"/> TYPE IV (FORWARD THROW) IV  (segmented) <input type="checkbox"/> TYPE V V-SQ  (segmented)	<table border="1"> <thead> <tr> <th>WATTS</th> <th>TYPE</th> <th>VOLTS</th> </tr> </thead> <tbody> <tr> <td colspan="3">TSU</td> </tr> <tr> <td colspan="3">Mogul Base/ E Lamp</td> </tr> <tr> <td><input type="checkbox"/> 400</td> <td><input type="checkbox"/> PSMH</td> <td><input type="checkbox"/> 120</td> </tr> <tr> <td><input type="checkbox"/> 350</td> <td></td> <td><input type="checkbox"/> 208</td> </tr> <tr> <td><input type="checkbox"/> 320</td> <td></td> <td><input type="checkbox"/> 240</td> </tr> <tr> <td><input type="checkbox"/> 250</td> <td></td> <td><input type="checkbox"/> 277</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 480</td> </tr> <tr> <td><input type="checkbox"/> 400</td> <td><input type="checkbox"/> HPS</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250</td> <td></td> <td></td> </tr> <tr> <td colspan="3">PGZ Base/ T Lamp</td> </tr> <tr> <td><input type="checkbox"/> 310</td> <td><input type="checkbox"/> PSMH</td> <td><input type="checkbox"/> 120</td> </tr> <tr> <td><input type="checkbox"/> 215</td> <td></td> <td><input type="checkbox"/> 208</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 240</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 277</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 480</td> </tr> <tr> <td colspan="3">TSUM</td> </tr> <tr> <td colspan="3">Medium Base/ E Lamp</td> </tr> <tr> <td><input type="checkbox"/> 150</td> <td><input type="checkbox"/> PSMH</td> <td><input type="checkbox"/> 120</td> </tr> <tr> <td><input type="checkbox"/> 100</td> <td><input type="checkbox"/> HPS</td> <td><input type="checkbox"/> 208</td> </tr> <tr> <td><input type="checkbox"/> 70</td> <td></td> <td><input type="checkbox"/> 240</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 277</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 480</td> </tr> <tr> <td colspan="3">G Base/ T Lamp</td> </tr> <tr> <td><input type="checkbox"/> 150</td> <td><input type="checkbox"/> PSMH</td> <td><input type="checkbox"/> 120</td> </tr> <tr> <td><input type="checkbox"/> 70</td> <td></td> <td><input type="checkbox"/> 208</td> </tr> <tr> <td><input type="checkbox"/> 39</td> <td></td> <td><input type="checkbox"/> 240</td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> 277</td> </tr> </tbody> </table>	WATTS	TYPE	VOLTS	TSU			Mogul Base/ E Lamp			<input type="checkbox"/> 400	<input type="checkbox"/> PSMH	<input type="checkbox"/> 120	<input type="checkbox"/> 350		<input type="checkbox"/> 208	<input type="checkbox"/> 320		<input type="checkbox"/> 240	<input type="checkbox"/> 250		<input type="checkbox"/> 277			<input type="checkbox"/> 480	<input type="checkbox"/> 400	<input type="checkbox"/> HPS		<input type="checkbox"/> 250			PGZ Base/ T Lamp			<input type="checkbox"/> 310	<input type="checkbox"/> PSMH	<input type="checkbox"/> 120	<input type="checkbox"/> 215		<input type="checkbox"/> 208			<input type="checkbox"/> 240			<input type="checkbox"/> 277			<input type="checkbox"/> 480	TSUM			Medium Base/ E Lamp			<input type="checkbox"/> 150	<input type="checkbox"/> PSMH	<input type="checkbox"/> 120	<input type="checkbox"/> 100	<input type="checkbox"/> HPS	<input type="checkbox"/> 208	<input type="checkbox"/> 70		<input type="checkbox"/> 240			<input type="checkbox"/> 277			<input type="checkbox"/> 480	G Base/ T Lamp			<input type="checkbox"/> 150	<input type="checkbox"/> PSMH	<input type="checkbox"/> 120	<input type="checkbox"/> 70		<input type="checkbox"/> 208	<input type="checkbox"/> 39		<input type="checkbox"/> 240			<input type="checkbox"/> 277	ARM MOUNT <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  WALL MOUNT <input type="checkbox"/> WM 	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005-T <input type="checkbox"/> WHITE RAL-9003-T <input type="checkbox"/> GREY RAL-7004-T <input type="checkbox"/> DARK BRONZE RAL-8019-T <input type="checkbox"/> GREEN RAL-6005-T <small>FOR SMOOTH FINISH REMOVE SUFFIX 'T' (EXAMPLE: RAL-9500)</small> LATCH COLOR <input type="checkbox"/> CHROME LC <input type="checkbox"/> BLACK LB	<input type="checkbox"/> EXTERNAL HOUSE SIDE SHIELD HS <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) ... PC+V <input type="checkbox"/> TWIST LOCK PHOTO CELL+VOLTAGE (EXAMPLE TPC120V) ... TPC+V <input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY TPR <input type="checkbox"/> SINGLE FUSE (120V., 277V) SF <input type="checkbox"/> QUARTZ RESTRIKE QTZ
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VLED™

MODEL	OPTICS	VLED™ MODE	MOUNTING	FINISH	OPTIONS																		
<input type="checkbox"/> TSU Tsunami <input type="checkbox"/> TSUM Tsunami Mini	<input type="checkbox"/> TYPE II II  <input type="checkbox"/> TYPE III III  <input type="checkbox"/> TYPE IV (FORWARD THROW) IV  <input type="checkbox"/> TYPE V V-SQ 	<table border="1"> <thead> <tr> <th>No. LEDs</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td colspan="2">TSU</td> </tr> <tr> <td><input type="checkbox"/> 120LED (132 Watts)</td> <td><input type="checkbox"/> NW</td> </tr> <tr> <td><input type="checkbox"/> 80LED (88 Watts)</td> <td><input type="checkbox"/> CW</td> </tr> <tr> <td colspan="2">TSUM</td> </tr> <tr> <td><input type="checkbox"/> 64LED (71 Watts)</td> <td></td> </tr> <tr> <td colspan="2">*NW - NEUTRAL WHITE (4100K) *STANDARD</td> </tr> <tr> <td colspan="2">CW - COOL WHITE (6500K)</td> </tr> <tr> <td colspan="2">OTHER LED COLORS AVAILABLE CONSULT FACTORY</td> </tr> </tbody> </table>	No. LEDs	COLOR	TSU		<input type="checkbox"/> 120LED (132 Watts)	<input type="checkbox"/> NW	<input type="checkbox"/> 80LED (88 Watts)	<input type="checkbox"/> CW	TSUM		<input type="checkbox"/> 64LED (71 Watts)		*NW - NEUTRAL WHITE (4100K) *STANDARD		CW - COOL WHITE (6500K)		OTHER LED COLORS AVAILABLE CONSULT FACTORY		ARM MOUNT <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  WALL MOUNT <input type="checkbox"/> WM 	STANDARD TEXTURED FINISH <input type="checkbox"/> BLACK RAL-9005 <input type="checkbox"/> WHITE RAL-9003 <input type="checkbox"/> GREY RAL-7004 <input type="checkbox"/> DARK BRONZE RAL-8019 <input type="checkbox"/> GREEN RAL-6005 <small>FOR SMOOTH FINISH REMOVE SUFFIX 'T' (EXAMPLE: RAL-9500)</small> LATCH COLOR <input type="checkbox"/> CHROME LC <input type="checkbox"/> BLACK LB	<input type="checkbox"/> EXTERNAL HOUSE SIDE SHIELD HS <input type="checkbox"/> PHOTO CELL + VOLTAGE (EXAMPLE: PC120V) ... PC+V <input type="checkbox"/> TWIST LOCK PHOTO CELL+VOLTAGE (EXAMPLE TPC120V) ... TPC+V <input type="checkbox"/> TWIST LOCK RECEPTACLE ONLY TPR <input type="checkbox"/> SINGLE FUSE (120V., 277V) SF <input type="checkbox"/> DOUBLE FUSE (208V., 240V) DF
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Tsunami™



Product Design by Wayne Compton



U.S. ARCHITECTURAL
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