

VOLTAIRE ARCHITECTURAL AREA LIGHT

VA1

LED

CATALOG #:

TYPE:

PROJECT:

NOTES:

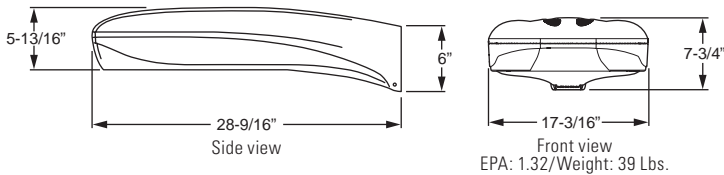
EXAMPLE

VA1 - L220/750 - T5 - F - S - DBZ - OPTIONS - DIM - UNV

SERIES LUMEN PACKAGE CRI & CCT DIST. ORIENT. MOUNTING CONFIG. FINISH OPTIONS OPTIONS/ACCESSORIES DRIVER VOLTAGE



CROSS SECTIONS



ORDERING INFORMATION

SERIES

VA1 Voltaire Architectural Area Light—17" x 29"

LED PACKAGE

NOTE: Nominal lumens are based on T5 distribution. See page 2 for fixture performance data.

Example: L220/750			
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	AVERAGE SYSTEM WATTAGE
L83	8,300	730 = 70 CRI, 3000K 740 = 70 CRI, 4000K 750 = 70 CRI, 5000K	82
L110	11,000		110
L160	16,000		161
L220	22,000		213

DISTRIBUTION

See page 2 for distribution details.

T2	Type II
T3	Type III
T4	Type IV
T5	Type V

ORIENTATION

See page 3 for orientation details.

F	Forward
L	Left
R	Right

MOUNTING CONFIGURATION

See page 3 for mounting configuration details.

S	Single
D90	Double @ 90°
D180	Double @ 180°
T90	Triple @ 90°
T120	Triple @ 120° (round pole only)
Q90	Quad @ 90°

FINISH OPTIONS

For custom color options, visit the VA1 at hew.com.¹

BLK	Black (RAL #9004)
DBZ	Dark bronze
DBR	Medium bronze
GRAY	Standard gray
GRN	Green (RAL #6005)
SLV	Satin aluminum (RAL #9006)
WHT	White (RAL #9003)

OPTIONS

See page 3 for option details.

See page 4 for available accessories, must be ordered separately.

SF	Single fuse (120V, 277V, or 347V only; must specify voltage)
DF	Double fuse (208V, 240V, or 480V only; must specify voltage)
PCR	NEMA locking photo control receptacle, photocell by others
PCR5	5 Position (3 power, 2 dimming/signal) locking photo control receptacle per NEMA C136.41, photocell by others
PCR7	7 Position (3 power, 4 dimming/signal) locking photo control receptacle per NEMA C136.41, photocell by others
RSD___	Round straight pole mount adapter, specify pole top diameter, minimum 3.5" O.D. (Do not specify when using VATMR tenon mount accessory.) Example: 3.5" pole top diameter = RSD350
(L___)	Additional lower lumen packages available. Specify in increments of 1,000 nominal lumens. Option must be specified with next higher lumen package. Example: 12,000 nominal lumens = VA1-L160/740-T5-F-S-(L120).
OCCWS FSP-211-L_	Factory-installed occupancy sensor, must specify lens, see page 3 for details (120V or 277V only). Optional FSIR-100 remote controller available, ordered separately, see accessories.

DRIVER

Additional dimming drivers available, see [Technical Info](#).

DIM	Driver prewired for 0-10V low voltage dimming applications (standard)
DALI	DALI dimming driver
DIM/NDP__	Programmable driver with nighttime dimming profile, specify dimming hours, lumen decrease, and installation location zip code using table on page 3.

Driver Options:
____/CLO Constant lumen output. Suffix, used in conjunction with programmable drivers above.
Example: DIM/DALI/CLO

VOLTAGE

120	120V	UNV	120-277V
208	208V	347	347V
240	240V	480	480V
277	277V		

GENERAL

- ▶ Engineered with the highest quality materials to ensure reliability, performance, and quality.
- ▶ Low-profile, contoured architectural design with integrated arm complements existing architecture.
- ▶ Hinged two-piece enclosure allows for ease of installation.
- ▶ Lumen maintenance (L70) of >60,000 hours per IES TM-21.
- ▶ Luminous efficacies up to 104 lm/W.
- ▶ ANSI 3000K, 4000K, and 5000K CCT, minimum 70 CRI.
- ▶ This fixture is proudly made in the USA.

THERMAL

- ▶ Integral die-cast aluminum heat sink provides optimal passive thermal management.
- ▶ Architectural appearance is preserved via concealed heatsink design.
- ▶ Wet location vented enclosure controls air flow to increase thermal performance and reliability.
- ▶ Rated for -30°C to 50°C ambient operating temperature (restrictions apply, see page 2 for lumen maintenance details).

OPTICAL

- ▶ Factory-set optics specified in 90° increments.
- ▶ Acrylic refractive lens design provides uniform distributions to effectively minimize hot spots and maximize pole spacing.

ELECTRICAL

- ▶ 0-10V dimming driver standard
- ▶ 10kA/10kV surge protection standard.
- ▶ One-piece LED module minimizes electrical connection points to increase reliability.
- ▶ Optional NEMA locking receptacle integrates with third-party photocell and control systems.
- ▶ Four captive fasteners provide easy access to electrical components.



¹ For custom colors other than RAL, manufacturers' code plus two swatches (minimum 1" square) required.



LED

SPECIFICATIONS

Housing – Heavy-duty, two-piece die-cast aluminum clamshell enclosure, rated IP65. Removable lower enclosure and electrical compartment, secured with locking hinge mechanism.

Thermal Management – Integral die-cast aluminum heatsink, concealed venting, and LED module seamlessly provide passive thermal management. Rated -30°C to 40°C (L83 configuration >50) ambient operating temperature.

Optical System – Precision, injection-molded, refractive acrylic lenses produce standard IES distributions. Factory-set orientations in 90° increments. Tempered glass standard.

LED Module – Circuit board design incorporates TVS diodes to protect against ESD events. ANSI 3000K, 4000K, and 5000K CCT, minimum 70 CRI LEDs.

LED Driver – 0-10V dimming driver standard.

Electrical – 120-277, 347, and 480 VAC input range; 50-60Hz; power factor >.90; THD <20% at full load. FCC Class A compliant. 10kA/10kV surge protection standard. Quick-disconnect wiring provided.

Finish – Super durable polyester powder coat bonded to phosphate-free, multi-stage pretreated metal, meets and exceeds AAMA 2604 specifications for outdoor durability. Available in seven standard colors. Custom colors available.

Mounting – Direct mounts to minimum 4" square pole. Optional round pole adapter, wall mount or post top tenon mount accessories available.

Labels – cCSAus listed to STD22.2 No 250.0 certified as luminaire Suitable for wet locations.

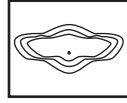
Certifications & Qualifications –

- Reported L70 lumen maintenance of >60,000 hours per IES TM-21
- Tested to IES LM-79-08 standards
- IDA Dark-Sky approved
- IP65 rated
- Meets the American National Standard for Roadway Lighting Equipment—Luminaire Vibration (ANSI C136.31-2001), direct mount to square pole applications only.
- RoHS compliant
- Title 24 compliant with OCCWS FSP-211-L_ option.
- BUG classified per IES TM-15-11

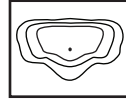
Warranty – 5-year limited warranty, see [hew.com/warranty](http://www.hew.com/warranty).

DISTRIBUTION

STANDARD DISTRIBUTIONS



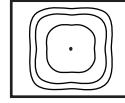
T2
Type II



T3
Type III



T4
Type IV



T5
Type V

FIXTURE PERFORMANCE DATA

LED Package	Average System Wattage	Distribution	Efficacy (lm/W)	Lumen Output	BUG Rating
L83	82	T2	102	8308	B1-U0-G1
		T3	98	7959	B2-U0-G2
		T4	97	7878	B1-U0-G2
		T5	103	8343	B3-U0-G1
L110	110	T2	87	11043	B2-U0-G2
		T3	98	10794	B3-U0-G3
		T4	97	10648	B2-U0-G2
		T5	102	11225	B3-U0-G2
L160	161	T2	102	16337	B2-U1-G2
		T3	99	16002	B3-U0-G3
		T4	95	15234	B3-U0-G3
		T5	101	16248	B4-U0-G2
L220	213	T2	103	21889	B3-U0-G3
		T3	100	21264	B3-U0-G3
		T4	99	21023	B3-U0-G3
		T5	104	22010	B4-U0-G2

- Efficacy/lumen output shown are for 5000K CCT.
- Photometrics tested in accordance with IESNA LM-79. Results shown are at 25°C ambient temperature.
- Flux Multipliers:
3000K CCT: 0.899
4000K CCT: 0.967

LUMEN MAINTENANCE

AMBIENT TEMP.	LUMEN PACKAGE	REPORTED L70 HOURS (TM-21)
40°C	L83	>60,000
	L110/L160	
	L220	
50°C	L83 ¹	>60,000
	L110/L160 ¹	
	L220	

- Predicted lumen maintenance calculated from LED manufacturer IES LM-80 data and In situ temperature measurement.
- Predicted L70 hours calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.

¹ 347V and 480V only.

MODULE VIEWS

L83



L110



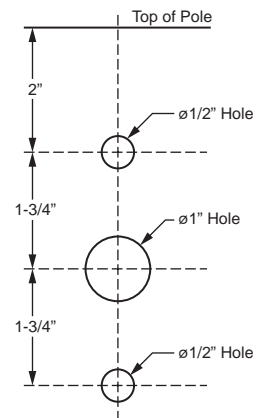
L160



L220



POLE DRILLING DETAIL



OPTIONS

RSD

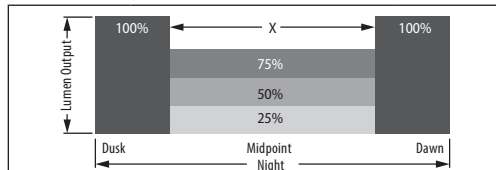


Round pole mount adapter, specify pole top diameter, minimum 3.5" O.D.
Example: 3.5" Pole top diameter = RSD350
 EPA: 0.03/Weight: 1 Lb.
 Do not specify when using VATMR accessory.

NDP

Reduce energy consumption by using a variety of preset or custom nighttime dimming profiles requiring no internal clock, additional wiring, or controls.

Photozell recommended to achieve optimal dimming profiles and realize maximum energy savings.



EXAMPLE: DIM/NDP425/64836

PREFIX	DIMMING HOURS (X)	LUMEN DECREASE	5-DIGIT ZIP CODE ¹
DIM/NDP	4 = 4 hours 6 = 6 hours 8 = 8 hours	25 = 25% dimming 50 = 50% dimming 75 = 75% dimming	00000
DIM/NDPC	Custom dimming profile, consult factory		

¹ Zip code of installation location required.

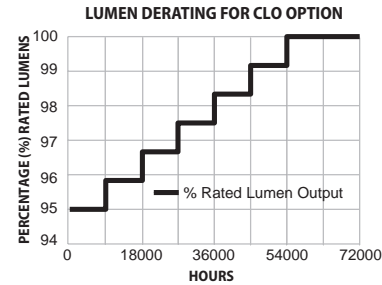
PCR

NEMA locking receptacle (photozell by others), shipped with shorting cap (not shown).



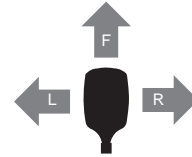
CLO

Deliver constant lumens throughout the life of the product using the constant lumen output (CLO) option.



ORIENTATION

Factory-set optics are specified in 90° increments.



Top View

F = Forward

L = Left

R = Right

MOUNTING CONFIGURATION



S Single
EPA: 1.21
Weight: 39 lbs.



D90 Double 90°
EPA: 1.64
Weight: 78 lbs.



D180 Double 180°
EPA: 2.42
Weight: 78 lbs.



T90 Triple 90°
EPA: 2.53
Weight: 117 lbs.



T120 Triple 120°
EPA: 2.28
Weight: 120 lbs.
Round pole only



Q90 Quad 90°
EPA: 2.53
Weight: 156 lbs.

OCCUPANCY SENSOR



EXAMPLE

OCCWS FSP-211 - L2

OCCUPANCY SENSOR

LENS

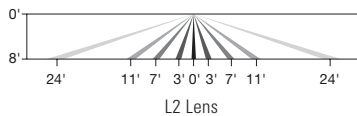
- Fully adjustable high and low dimmed light levels.
- Designed for LED fixtures; rated for extreme temperatures and up to 200,000 on/off cycles.
- Hold-off setpoint with automatic calibration option for convenience and added energy savings.
- Adjustable via handheld wireless configuration tool (ordered separately, see page 4).
- IP66 rated with choice of lenses for wet and outdoor locations, and mounting heights from 8' to 20'.
- Adjustable time delay and cutoff delay.
- Factory set to 10% dimming at 5 minutes, cutoff at 1 hour.

OCCUPANCY SENSOR ORDERING INFORMATION

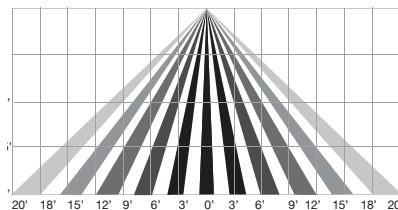
OCCWS FSP-211-__ Factory-installed occupancy sensor, must specify lens (120V or 277V only)

LENS

- L2** Coverage at 8' mounting height: ø48'
- L3** Coverage at 20' mounting height: ø40'



L2 Lens



L3 Lens



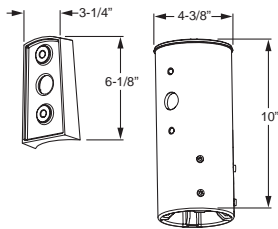
ACCESSORIES (Ordered Separately)

VATM – Voltaire Pole Top Tenon Mount & Round Pole Adapter

EXAMPLE

VATM R - TM238 - Q90 - DBR

SERIES STYLE TENON SIZE MOUNTING CONFIGURATION FINISH OPTIONS

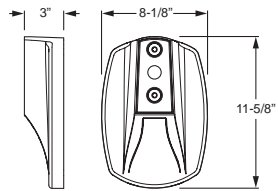


“S” Mounting Configuration Shown
EPA: .33/Weight: 6 Lbs.
Round pole mount adapter(s) included.
Quantity determined by mounting configuration.

Construction – Round die-cast aluminum. Fits 2-3/8” to 3” pole top tenon, must specify (minimum 4” tenon height required). Accommodates up to four luminaires. Includes round pole adapter(s).
Luminaire Mounting –The luminaire mounts using two 3/8”-16 concealed bolts secured to mounting plate.
Pole Cap – Durable glass-filled plastic pole cap.
Finish Options – Super durable polyester powder coat meets and exceeds AAMA 2604 specifications for outdoor durability.

SERIES	STYLE	TENON SIZE	MOUNTING CONFIGURATION	FINISH
VATM	R Round	TM238 2-3/8” x 4” TM278 2-7/8” x 4” TM3 3” x 4”	S Single D90 Double @ 90° D180 Double @ 180° T90 Triple @ 90° T120 Triple @ 120° (round pole only) Q90 Quad @ 90°	For custom color options , visit the VA1 at hew.com. BLK Black (RAL #9004) DBZ Dark bronze DBR Medium bronze GRAY Standard gray GRN Green (RAL #6005) SLV Satin aluminum (RAL #9006) WHT White (RAL #9003)

VAWM – Voltaire Wall Mount



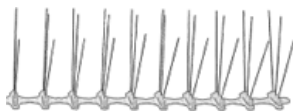
EPA: .22/Weight: 5 Lbs.
For use with VA1 Series only

Construction – Die-cast aluminum.
Luminaire Mounting –Luminaire mounts using two 3/8”-16 concealed bolts secured to mounting plate. Must be anchored to appropriate wall construction.
Finish Options – Super durable polyester powder coat meets and exceeds AAMA 2604 specifications for outdoor durability.

ORDERING EXAMPLE: VAWM-DBR

SERIES	FINISH
VAWM	For custom color options , visit the VA1 at hew.com. BLK Black (RAL #9004) DBZ Dark bronze DBR Medium bronze GRAY Standard gray GRN Green (RAL #6005) SLV Satin aluminum (RAL #9006) WHT White (RAL #9003)

BG – Roosting Prevention Spikes



ORDERING EXAMPLE: BGSS

SERIES	MATERIAL
BG	P 2' plastic SS Premium 2' stainless steel

FSIR-100 – Occupancy Sensor Remote



Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. Please specify quantity required per project.

Visit www.wattstopper.com for more information.