

CATALOG #: \_\_\_\_\_

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

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



### FEATURES

- Contoured styling blends seamlessly with landscaping and a variety of architectural styles
- Precise light control with six standard NEMA distributions
- Versatile suite of architectural mounting arms meet the demands of a wide range of flood lighting applications
- Rugged and sealed die-cast housing with integral knuckle design provides durability
- Made Right Here® in the USA

### SPECIFICATIONS

- HOUSING** – Die-cast aluminum enclosure, sealed to protect electrical components.
- THERMAL MANAGEMENT** – Integral die-cast aluminum heatsink provides passive thermal management. Rated -30°C to 50°C ambient operating temperature.
- OPTICAL SYSTEM** – Precision, injection-molded, refractive acrylic lensing produces standard NEMA floodlight distributions. Clear tempered glass lens.
- LED ASSEMBLY** – Circuit board design incorporates TVS (transient-voltage-suppression) diodes to protect against ESD events. ANSI 3000K, 4000K, and 5000K CCT, minimum 70 CRI LEDs.
- LED DRIVER** – Class 2 constant-current driver, 0-10V dimming.
- 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. See fixture performance data for lumen maintenance.
- FINISH** – Super durable polyester powder coat bonded to phosphate-free, multi-stage pretreated metal, meets and exceeds AAMA 2604 specifications for outdoor durability.
- MOUNTING** – Straight arm slip-fits ø1-1/2" (ø1-7/8" O.D.) tenon. Curved arm mounts to vertical surface or pole, downlight orientation only using cast adapter and mounting plate provided. Must be anchored to adequate structure that can safely support fixture weight. See page 5 for LOAD DATA. Fixture not designed to be mounted in horizontal orientation with glass facing upwards at 0 degrees.
- LISTINGS** –
  - cCSAus listed to STD 22.2 No. 250.0 certified as luminaire suitable for wet locations.
  - IP66 rated.
  - Meets the American National Standard for Roadway and Area Lighting Equipment – Luminaire Vibration (ANSI C136.31-2010). Straight arm fixture only.
  - RoHS compliant.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

ORDERING EXAMPLE: VF1 - L45/740 - MF - SR - DBZ - OPTIONS - DIM - UNV

### ORDERING INFO

SERIES	LUMENS <sup>[1]</sup>	CRI	CCT	DISTRIBUTION <sup>[2]</sup>
VF1	L20 2,000lm	70	30 3000K	NS Narrow spot (3H x 3V)
	L45 4,500lm		40 4000K	MF Medium flood (5H x 5V)
			50 5000K	WF Wide flood (6H x 6V)
				HS Horizontal spot (7H x 5V)
				VF Vertical flood (5H x 5V)
				HF Horizontal flood (7H x 5V)

### MOUNTING <sup>[3]</sup>

- SR Straight arm
- CU Curved arm <sup>[5]</sup>

### FINISH OPTIONS <sup>[4]</sup>

- 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 <sup>[6]</sup>

- PC 3/16" clear polycarbonate button-style photocell, factory-installed <sup>[7]</sup>
- WG Wireguard, 11-gauge tempered steel with chrome powder-coat finish, factory-installed
- WG-VF1 Wireguard kit, 11-gauge tempered steel with chrome powder-coat finish, field-installed
- FVS Flush vandal shield, 3/16" clear polycarbonate, factory-installed
- VF1CS-\_\_\_ Cutoff shield, 1/16" thick aluminum, field-installed <sup>[8]</sup>
- VF1FS-\_\_\_ Full cutoff shield, 1/16" thick aluminum, field-installed <sup>[9]</sup>
- VF1FVS Flush vandal shield kit, 3/16" clear polycarbonate, field-installed

### DRIVER

- DIM Dimming driver prewired for 0-10V low voltage applications

### VOLTAGE

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

### MOUNTING ACCESSORIES <sup>[10]</sup>

See page 4 for TENON MOUNT ACCESSORY OPTIONS.

- VF1TA Threaded adapter <sup>[11]</sup>
- VF1TR-\_\_\_ Tenon reducer <sup>[12]</sup>
- STK Ground stake <sup>[13]</sup>
- VF1WC-\_\_\_ Wall cover for curved arm fixture <sup>[14]</sup>

### NOTES

- Lumen output based on 4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- See page 2 for DISTRIBUTION DETAILS.
- See page 3 for MOUNTING DETAILS.
- See page 2 for FINISH OPTIONS.
- Vertical surface mount, downlight orientation only, includes cast adapter and mounting plate.
- See page 3 for OPTIONS DETAILS.

- 120V, 208V, 240V, or 277V only; must specify voltage.
- Must specify finish. Example: VF1CS-DBZ.
- Must specify finish. Example: VF1FS-DBZ.
- See page 3 for MOUNTING DETAILS.
- SR Mounting only.
- SR Mounting only. Must specify finish. Example: VF1TR-DBZ.
- SR Mounting only. Requires VF1TA option.
- SR Mounting only. Must specify finish. Example: VF1WC-DBZ.



## FIXTURE PERFORMANCE DATA

	DISTRIBUTION	FLUX (LM)	WATTAGE	EFFICACY (lm/W)	NEMA CLASSIFICATION	
					HORIZONTAL	VERTICAL
L20	NS	2744	19	130	3	3
	MF	2302		121	5	5
	WF	2298		121	6	6
	HS	2452		129	7	5
	VF	2448		129	5	5
	HF	2501		132	7	5
L45	NS	4653	36	129	3	3
	MF	4324		120	5	5
	WF	4316		120	6	6
	HS	4606		128	7	5
	VF	4598		128	5	5
	HF	4697		130	7	5

- Photometrics tested in accordance with IESNA LM-79. Results shown are at 25°C ambient temperature.
- Predicted lumen maintenance calculated from LED manufacturer IES LM-80 data and in-situ temperature measurement.
- Reported L70 hours in accordance with IES TM-21

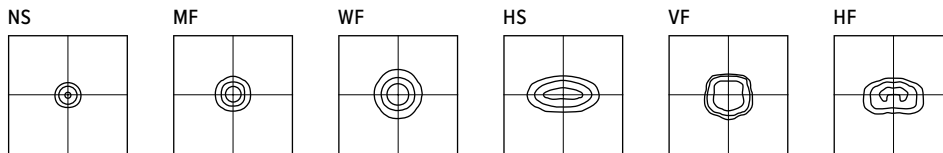
## LUMEN MAINTENANCE

AMBIENT TEMP.	LUMEN PACKAGE	REPORTED L70 HOURS (TM-21)	CALCULATED HOURS		
			L70	L80	L90
25°C	L20	>60,000	173,000	108,000	50,000
	L35		111,000	70,000	34,000
50°C	L20	>60,000	101,000	64,000	31,000
	L35		64,000	40,000	20,000

## MULTIPLIER TABLE

COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
3000K	0.90
4000K	1.00
5000K	1.04

## DISTRIBUTION DETAILS

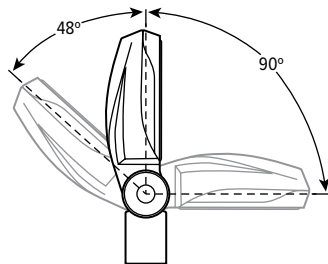


## FIXTURE DETAILS

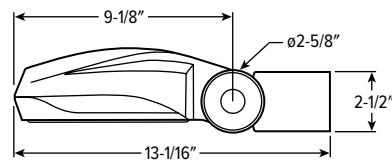
### FIXTURE ADJUSTMENT

Easily adjusts with locking teeth in 6° increments. (EPA: 0.46/Weight: 8 lbs)

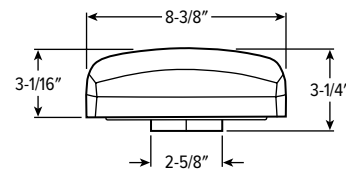
#### STRAIGHT ARM (SR)



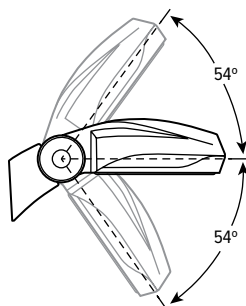
#### SIDE VIEW



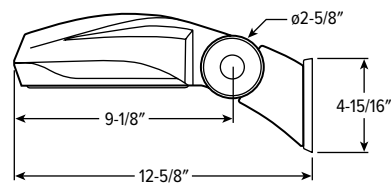
#### FRONT VIEW



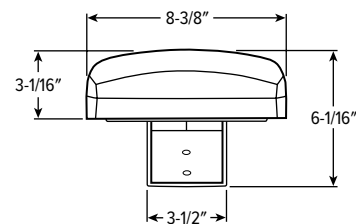
#### CURVED ARM (CU)



#### SIDE VIEW

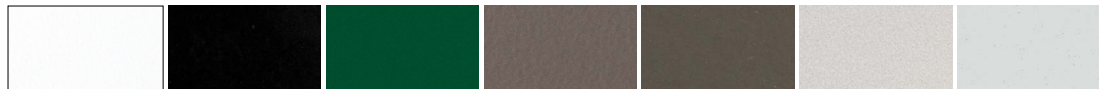


#### FRONT VIEW



## FINISH OPTIONS

WHITE BLACK GREEN MEDIUM BRONZE DARK BRONZE SATIN ALUMINUM GRAY

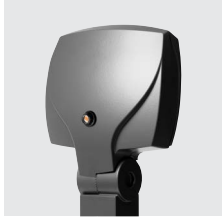


For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.



## OPTIONS DETAILS

### PC

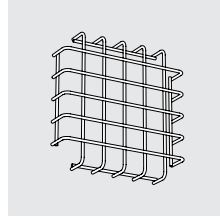


### WG



Fixture can accommodate only one face-mounted option.

### WG-VF1



Includes (8) #6-32 screws and clips.  
EPA: 0.12/Weight: 0.38 lbs

### FVS



Fixture can accommodate only one face-mounted option.

### VF1CS-\_\_\_



Includes (4) #6-32 screws.  
6-1/2" x 5-1/4" x 2-1/2"  
EPA: 0.12/Weight: 0.20 lbs

### VF1FS-\_\_\_



Includes (4) #6-32 screws.  
6-5/8" x 6-5/8" x 2-1/2"  
EPA: 0.19/Weight: 0.39 lbs

### VF1FVS

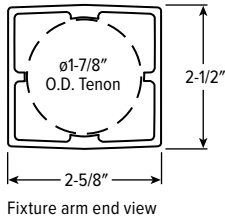


Includes (4) #6-32 screws and clips.  
EPA: 0.01/Weight: 0.26 lbs

## MOUNTING DETAILS

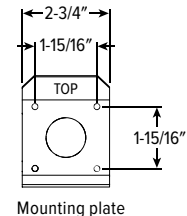
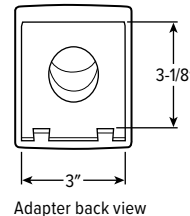
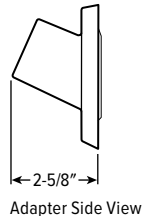
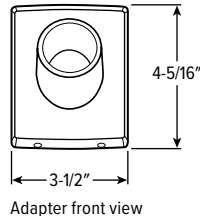
### STRAIGHT ARM (SR)

- Mounts horizontally or vertically to  $\phi 1-1/2"$  ( $\phi 1-7/8"$  O.D.) tenon.
- Up or down light applications.
- 360° rotation on mounting tenon.
- Additional mounting accessories available.

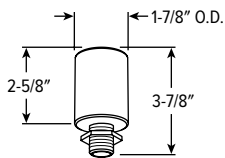


### CURVED ARM (CU)

- Mounts to vertical surface or pole, downlight orientation only, using cast adapter and mounting plate provided.
- Must be anchored to adequate structure that can safely support fixture weight.

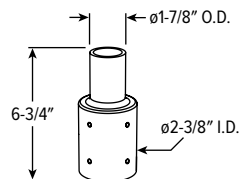


### VF1TA



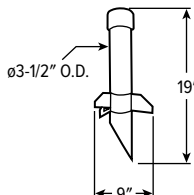
Threaded adapter: 1/2" NPS stainless steel threaded nipple with hex locknut on a cast aluminum anodized  $\phi 1-7/8"$  O.D. adapter.  
EPA: 0.00/Weight: 0.61 lbs.

### VF1TR-\_\_\_



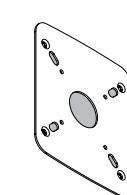
Die-cast aluminum tenon adapter/reducer, slipfits a  $\phi 2"$  tenon. Must specify finish.  
EPA: 0.08/Weight: 1.37 lbs.  
Example: VF1TR-DBZ

### STK



Ground stake: molded black plastic with integral splice compartment and 1/2" NPS threaded entry point for fixture mounting (requires VF1TA option, above)

### VF1WC-\_\_\_



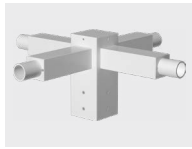
4" j-box wall cover for curved arm fixture, must specify finish.  
Example: VF1WC-DBZ



## TENON MOUNT ACCESSORY OPTIONS

NOTE: Tenons cannot be mounted in down orientation. Mounting accessories are for use with straight arm (SR) fixtures only.

### TMHT

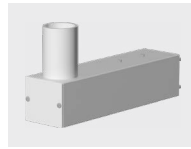


#### POLE TOP TENON - HORIZONTAL FIXTURE MOUNT

- Mounts on 2-3/8" - 3" pole top tenons
- Round or square to match pole shape
- Mounting configurations for one to four fixtures
- Center tenon option available

Example: VF1-TMHT-SQ-T238-S-DBZ

### DMVT

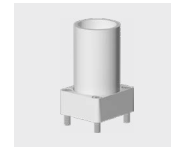


#### DIRECT MOUNT - VERTICAL FIXTURE

- Mounts to round or square poles
- Fixtures can be rotated 360° around tenon

Example: VF1-DMVT-SQ-S-DBZ

### SM

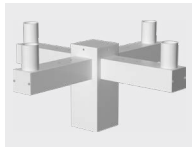


#### SURFACE MOUNT

- Mounts to any flat surface, with tenon in upward or horizontal orientation
- Fixtures can be rotated 360° around tenon

Example: VF1-SM-DBZ

### TMVT

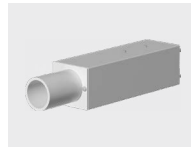


#### POLE TOP TENON - VERTICAL FIXTURE MOUNT

- Mounts on 2-3/8" - 3" pole top tenons
- Round or square to match pole shape
- Vertical fixture tenons
- Mounting configurations for one to four fixtures
- Center tenon option available

Example: VF1-TMVT-SQ-T238-S-DBZ

### DMHT



#### DIRECT MOUNT - HORIZONTAL FIXTURE

- Mounts to round or square poles

Example: VF1-DMHT-SQ-S-DBZ

### ST



#### VERTICAL STANCHION MOUNT

- Profile matches VF1 and VF2 arms
- Stanchion arm base cover and fixture rotate 360° around base
- Vertical fixture tenon

Example: VF1-ST-DBZ

### HT

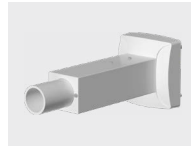


#### HORIZONTAL POLE TOP TENON

- Mounts on 2-3/8" - 3" pole top tenons
- Round or square to match pole shape
- Horizontal fixture tenons
- Mounting configurations for one to four fixtures
- Center tenon option available

Example: VF1-HT-SQ-T238-S-DBZ

### WMHT



#### WALL MOUNT - HORIZONTAL FIXTURE

- Cast cover matches fixture aesthetics

Example: VF1-WMHT-DBZ

### STH



#### HORIZONTAL STANCHION MOUNT

- Profile matches VF1 and VF2 arms
- Stanchion arm base cover and fixture rotate 360° around base
- Horizontal fixture tenon

Example: VF1-STH-DBZ

### VT

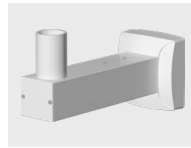


#### VERTICAL POLE TOP TENON

- Mounts on 2-3/8" - 3" pole top tenons
- Round or square to match pole shape
- Vertical fixture tenon

Example: VF1-VT-SQ-T238-DBZ

### WMVT



#### WALL MOUNT - VERTICAL FIXTURE

- Cast cover matches fixture aesthetics
- Fixtures can be rotated 360° around tenon

Example: VF1-WMVT-DBZ

## ORDERING INFORMATION

EXAMPLE: VF1-TMVT-SQ-T238-S-DBZ-OPTIONS						
	SERIES	SIZE/SHAPE	TENON SIZE (BY OTHERS)	MOUNTING CONFIGURATION	FINISH OPTIONS	OPTIONS
TENON MOUNT	VF1-TMHT VF1-TMVT VF1-HT	SQ Square RD Round	T238 ø2-3/8" O.D. T278 ø2-7/8" O.D. T3 ø3" O.D.	S Single D90 Double @ 90° D180 Double @ 180° T90 Triple @ 90° T120 Triple @ 120° <sup>1</sup> Q90 Quad @ 90°		CT Center tenon
	VF1-VT	SQ Square RD Round	T238 ø2-3/8" O.D. T278 ø2-7/8" O.D. T3 ø3" O.D.		BLK Black DBZ Dark bronze DBR Medium bronze GRAY Standard gray SLV Satin aluminum WHT White	
DIRECT MOUNT	VF1-DMVT VF1-DMHT	SQ Square pole 3R 3" round pole 4R 4" round pole 5R 5" round pole		S Single D90 Double @ 90° D180 Double @ 180° T90 Triple @ 90° T120 Triple @ 120° <sup>1</sup> Q90 Quad @ 90°		
	VF1-WMHT VF1-WMVT VF1-SM VF1-ST VF1-STH					

<sup>1</sup> For RD option only



## LOAD DATA

MODEL NUMBER	ARM LENGTH <sup>1</sup>	MOUNTING CONFIGURATION	EPA <sup>2</sup>	WEIGHT
VF1-SM		-	0.04	0.41
VF1-ST	10"	-	0.75	3.48
VF1-DMHT-SQ VF1-DMHT-RD	8"	S	0.42	2.33
		D90		
		D180		
		T90		
		T120		
VF1-DMVT-SQ VF1-DMVT-RD	10"	S	0.51	2.39
		D90		
		D180		
		T90		
		T120		
VF1-WMHT	8"	-	0.61	3.51
VF1-WMVT	10"	-	0.71	3.58
VF1-TMHT-RD	8"	S	1.02	7.67
		D90	1.36	9.79
		D180	1.36	9.79
		T90	1.69	11.91
		T120	1.64	11.91
VF1-TMVT-RD	10"	Q90	2.02	14.03
		S	1.11	7.35
		D90	1.54	9.15
		D180	1.55	9.15
		T90	1.96	10.95
VF1-TMHT-SQ	8"	T120	1.9	10.95
		Q90	2.65	12.75
		S	1.17	9.34
		D90	1.44	11.48
		D180	1.45	11.48
VF1-TMVT-SQ	10"	T90	1.58	13.68
		Q90	1.82	15.76
		S	1.27	9.06
		D90	1.58	10.86
		D180	1.69	10.86
VF1-VT-RD	-	-	0.69	5.89
VF1-VT-SQ	-	-	0.83	7.47
VF1-HT-RD	-	S	0.69	5.77
		D90		6.25
		D180		6.25
		T90		6.73
		T120		6.73
VF1-HT-SQ	-	Q90	0.83	7.21
		S		7.42
		D90		7.64
		D180		7.64
		T90		7.86
		Q90		8.08

<sup>1</sup> Maximum arm length cannot exceed 28.188" long in any configuration.

<sup>2</sup> EPA is calculated for mounting options only.

