

DESCRIPTION

The cylindrical form of the Vision Flood Small LED luminaire blends effortlessly to architectural and landscape environments. The Vision Flood Small LED luminaire offers optical, energy and maintenance solutions for the full breadth of floodlighting applications.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

HOUSING: One-piece, die-cast aluminum housing maintains a nominal .125" thickness to endure the toughest environments while maintaining precise tolerance control. **DOOR:** Die-cast aluminum door maintains a nominal .125" thickness and features concealed hinging to the housing. Door is secured with four tamper-resistant recessed stainless steel allen head fasteners. Door frame features an integral accessory channel for the mounting of optional light control accessories. Doorframe seals to housing with a standard extruded silicone gasket. Lens is impact-resistant .180" thick tempered clear flat glass, sealed to the door with a one-piece silicone gasket. IP66 rated.

Optics

DISTRIBUTION: State-of-the-art optical designs offer the choice of high efficiency floodlighting optical distributions including symmetric round, symmetric rectangular, asymmetric rectangular and tight spot beam patterns. Optic module is injection molded thermo plastic with highly reflective, metalized specular finish. **LEDs:** High output LEDs, 60,000+ hours life at >90% lumen maintenance per IESNA TM-21 Standards, offered standard

in 4000K (+/- 275K) and nominal 70 CRI.

Electrical

DRIVER: LED drivers feature electronic universal voltage 120-277V (50/60Hz), 347V (60Hz) or 480V (60Hz) > 0.9 power factor, < 20% harmonic distortion. 480V is compatible for use with 480V Wye systems only. Features ambient temperature rating range of +40°C (104°F) down to minimum starting temperature of -40°C (-40°F). Shipped standard with our proprietary circuit module designed to withstand 10kV of transient line surge. LEDs and drivers mounted to assembly trays and equipped with quick disconnects for ease of maintenance.

Mounting

KNUCKLE: Heavy-duty die-cast aluminum knuckle utilizes a taper-lock adjustment mechanism for both solid engagement and infinite aiming adjustment. Knuckle adjustment is made via one captive stainless steel allen head fastener consistent with doorframe fasteners. Tested to sustain 2G of vibration without losing aiming position. VFS knuckle features a 3/4" NPT nipple on bottom surface for rigid attachment to available

mounting accessories. Optional slipfitter mount available for VFS.

Finish

Housing is finished in five-stage, super premium TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult Outdoor Architectural Colors brochure for a complete selection. Options to meet Buy American Act requirements

Warranty

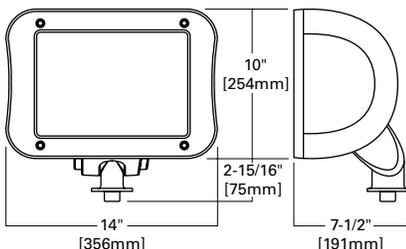
Five-year warranty.



VFS VISION FLOOD SMALL LED

ARCHITECTURAL FLOOD
LUMINAIRE

DIMENSIONS



CERTIFICATION DATA

40°C Ambient Temperature Rating
UL and cUL Listed
ISO 9001
IP66 Luminaire
LM79 / LM80 Compliant
2G Vibration Tested

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature

EPA

Effective Projected Area (Sq. Ft.):
1.19

SHIPPING DATA

Approximate Net Weight:
18 lbs. (8 kgs.)

DELIVERED LUMENS BY DISTRIBUTION, LED QUANTITY AND DRIVE CURRENT

Voltage	Drive Current / LED Quantity						IES NEMA Type (H x V)
	350mA		525mA		700mA		
	20 LEDs	40 LEDs	20 LEDs	40 LEDs	20 LEDs	40 LEDs	
TS (Tight Spot)	2,082	3,877	2,877	5,421	3,399	6,070	3 x 3
TBS (Tight Spot Baffle)	1,260	2,347	--	--	--	--	1 x 1
WST (Wide Symmetric Rectangular)	2,219	4,132	3,066	5,774	3,264	6,470	7 x 6
MST (Medium Symmetric Rectangular)	2,261	4,210	3,123	5,885	3,692	6,590	6 x 5
VAT (Vertical Asymmetric Rectangular)	2,243	4,177	3,100	5,840	3,663	6,540	6 x 6
NSR (Narrow Symmetric Round)	2,112	3,943	2,918	5,496	3,450	6,158	3 x 3
MSR (Medium Symmetric Round)	2,183	4,065	3,016	5,880	3,565	6,361	4 x 4

NOTE: Lumens values based upon 4000K CCT and 25°C ambient operating temperatures.

INPUT WATTS BY VOLTAGE, LED QUANTITY AND DRIVE CURRENT

Voltage	Input by Drive Current / LED Quantity					
	350mA		525mA		700mA	
	20 LEDs	40 LEDs	20 LEDs	40 LEDs	20 LEDs	40 LEDs
Input Watts @ 120-277V	24W	46W	35W	67W	49W	94W
Input Watts @ 347V	27W	48W	38W	70W	52W	97W
Input Watts @ 480V	31W	52W	42W	73W	55W	100W

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
10°C	1.04
15°C	1.03
25°C	1.00
40°C	0.96
50°C	0.92

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000

ORDERING INFORMATION

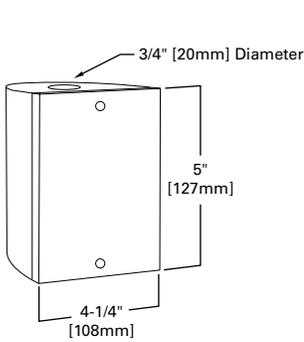
Sample Number: VFS-K-B40-5-LED-E1-MST-GM

Product Family	Mounting Type	Number of LEDs / Driver Current ¹	Lamp Type	Voltage	Distribution	Color	
VFS=Vision Flood Small BAA-VFS=Vision Flood Small Buy American Act Compliant ¹²	K=Knuckle Mount	B20-3=20 LEDs at 350mA B20-5=20 LEDs at 525mA B20-7=20 LEDs at 700mA B40-3=40 LEDs at 350mA B40-5=40 LEDs at 525mA B40-7=40 LEDs at 700mA ^{2,3}	LED=Light Emitting Diodes	E1=Electronic (120-277V) D1=Electronic Dimming ⁴ 347=347V 480=480V ^{5,6}	TS=Tight Spot TSB=Tight Spot Baffle ^{3,7,8} WST=Wide Symmetrical Rectangular MST=Medium Symmetrical Rectangular VAT=Vertical Asymmetric Rectangular NSR=Narrow Symmetrical Round MSR=Medium Symmetrical Round	AP=Grey BK=Black BZ=Bronze DP=Dark Platinum GM=Graphite Metallic WH=White	
Options (Add as Suffix)		Accessories (Order Separately) ¹³					
PC=Button Photocontrol (Specify Voltage) SG=Softening Glass ⁹ 7060=70 CRI / 6000 CCT 8030=80 CRI / 3000 CCT		JB-XX=Architectural Junction-box with Two 3/4" NPT Entries SM-XX=Stanchion Mount ST-XX=Stanchion Mount Tenon ¹⁰ WM-XX=Wall Mount WMA-XX=Wall Mount Arm WMT-XX=Wall Mount Tenon Mount ¹⁰ TMA-XX=Twin Mount Arm - EPA 0.35 TMT-XX=Twin Mount Arm Tenon Mount - EPA 0.42 ¹⁰ SMT-XX=Surface Mount Tenon ¹⁰ SF-XX=Slipfitter			PM1-XX=Post Mount Extension Single - EPA 0.12 PM2-XX=Post Mount Extension Double - EPA 0.12 VFS-CFR-XX=Color Filter Adapter with Red Gel ¹¹ VFS-CFB-XX=Color Filter Adapter with Bright Blue Gel ¹¹ VFS-CFG-XX=Color Filter Adapter with Deep Green Gel ¹¹ VFS-CFO-XX=Color Filter Adapter with Warm Orange Gel ¹¹ VFS-BD-XX=Barn Doors - EPA 1.01 VFS-TV-XX=Top Visor - EPA 0.6 VFS-4S-XX=Four Sided Visor VA6174=Tamper-proof Driver Bit CPR Cap Screw		

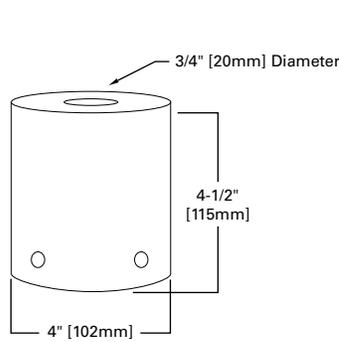
- NOTES:
- Standard 4000K CCT, nominal 70 CRI.
 - 40 LEDs at 700mA (B40-7) limited to 25°C ambient conditions.
 - Not available with color filters or external shielding.
 - Not available with 20 LEDs at 700mA (B20-7). Provides 0-10V DC low voltage leads used in dimming control.
 - Only available with normal power factor and <30THD.
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - Not available with 347V or 480V.
 - Available with 20 or 40 LEDs at 350mA (B20-3 or B40-3) only.
 - Standard on WST distribution.
 - Must order SF Slipfitter.
 - Not available with B40-5 or B40-7.
 - Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
 - Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

ACCESSORIES

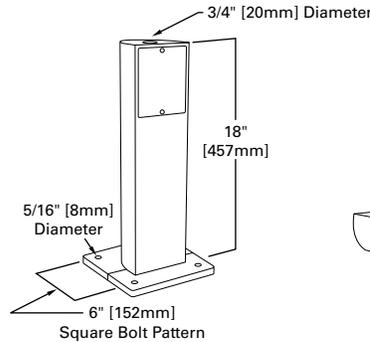
The Vision Flood Small (VFS) knuckle features a 3/4" NPT threaded nipple on its bottom surface for direct mounting to the following accessories: Junction Box (JB), Slipfitter (SF), Stanchion Mount (SM), Twin Arm Mount (TMA), Wall Mount Arm (WMA), Wall Mount (WM) and Post Mount Extensions (PM1, PM2). When coupled with the available slipfitter (SF), the VFS can be mounted to the following accessories: Surface Mount Tenon (SMT), Stanchion Mount Tenon (ST), Twin Mount Arm Tenon (TMT) and Wall Mount Arm Tenon (WMT).



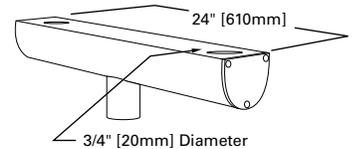
JUNCTION BOX (JB)
U.L. and CSA listed for wet locations, the Vision J-Box is supplied with a 3/4" clearance hole on the top surface and two 3/4" NPT openings on the bottom surface. An optional drilling consisting of one 1/2" NPT opening on the bottom surface can be specified.



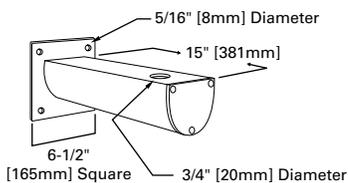
SLIPFITTER (SF)
Die-cast aluminum slipfitter features a 3/4" NPT entry point on top surface to mate to standard VFS knuckle. Allows fixture assembly to be mounted to standard 2" pipe size (2-3/8" O.D.) tenons and tenon equipped accessories.



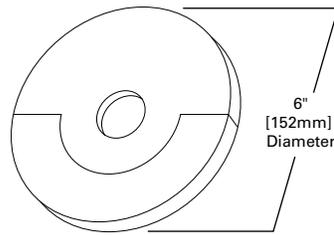
STANCHION MOUNT (SM)
Used to mount fixture above grade to solid surface, or partially buried when secured to concrete pad. Cast aluminum housing and mounting plate is 18" tall and is supplied with a single 3/4" clearance hole entry point.



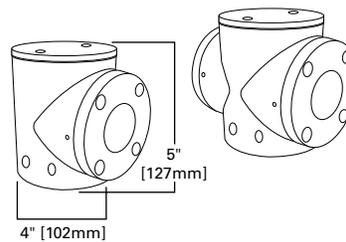
TWIN ARM MOUNT (TMA)
Soft form extruded aluminum arm is 24" in length and features two 3/4" clearance holes for twin fixture mount. Other lengths and drilling patterns available upon request. Twin arm base slip fits over standard 2" pipe size (2-3/8" O.D.) tenon. End caps are removable for wiring access. Useful in ground mount and pole mount applications.



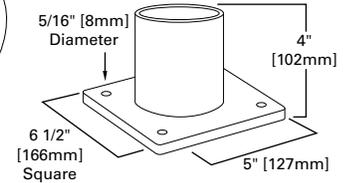
WALL MOUNT ARM (WMA)
Extruded aluminum arm with cast mounting plate is 15" in length and is supplied with a 3/4" clearance hole entry point.



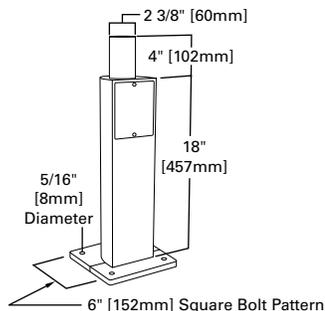
WALL MOUNT (WM)
Cast aluminum mounting plate adapts around 4" square or octagonal J-box by others. Additional stud mounting is required beyond J-box attachment. Consists of mounting bracket and cast aluminum splice access cover providing a clean transition to the wall surface. Hanger mount integral to mounting plate allows for ease of installation.



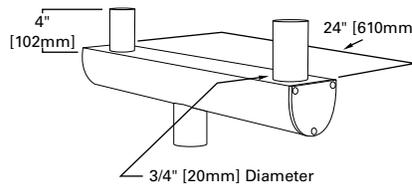
POST MOUNT EXTENSION (PM1/PM2)
Cast aluminum assembly slip fits over standard 2" pipe size (2-3/8" O.D.) tenons and allows for single (PM1), or double (PM2) mount configurations. Assembly allows for 360° of fixture rotation. Top cap provides splice access. Useful for single or twin, pole mounted downward aiming applications.



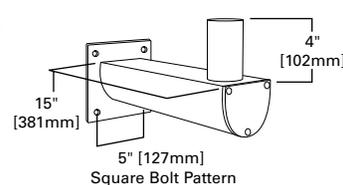
SURFACE MOUNT TENON (SMT)
For above-grade surface mount placement, the SMT is supplied with a 4" tall standard 2" pipe size (2-3/8" O.D.) tenon. Requires SF Slipfitter.



STANCHION MOUNT TENON (ST)
Used to mount fixture above grade to solid surface, or partially buried when secured to concrete pad. Cast aluminum housing and mounting plate is 18" tall and is supplied with a standard 2" pipe size (2-3/8" O.D.) tenon. Requires SF Slipfitter.

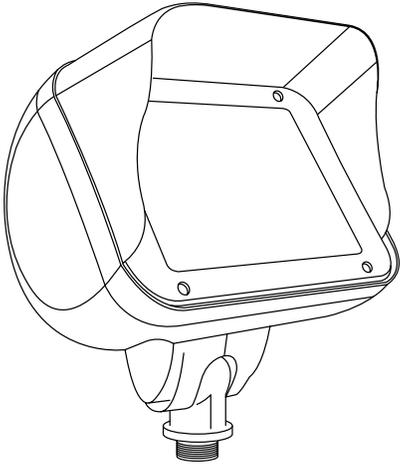


TWIN ARM MOUNT TENON (TMT)
Soft form extruded aluminum arm is 24" in length and features two standard 2" pipe size (2-3/8" O.D.) tenons for twin fixture mount. Other lengths and drilling patterns available upon request. Twin arm base slip fits over standard 2" pipe size (2-3/8" O.D.) tenon. End caps are removable for wiring access. Useful in ground mount and pole mount applications. For extended downward aiming, utilize PM1 or PM2 in conjunction with TMT. Requires

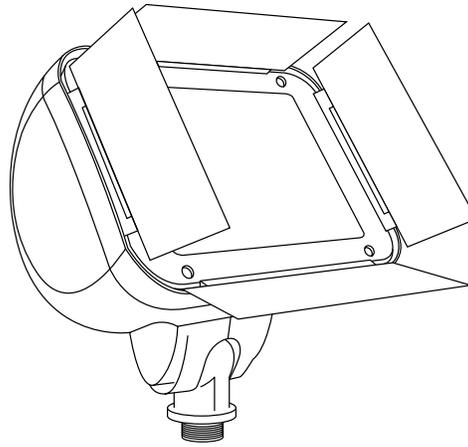


WALL MOUNT ARM TENON (WMT)
Extruded aluminum arm with cast mounting plate is 15" in length and is supplied with a standard 2" pipe size (2-3/8" O.D.) tenon. Also useful as an arm extension off square area lightpole. Requires SF Slipfitter.

ACCESSORIES



TOP VISOR (VFS-TV)
Controls excess spill and glare on top portion



BARN DOORS (VFS-BD)
Four independently mounted and adjustable