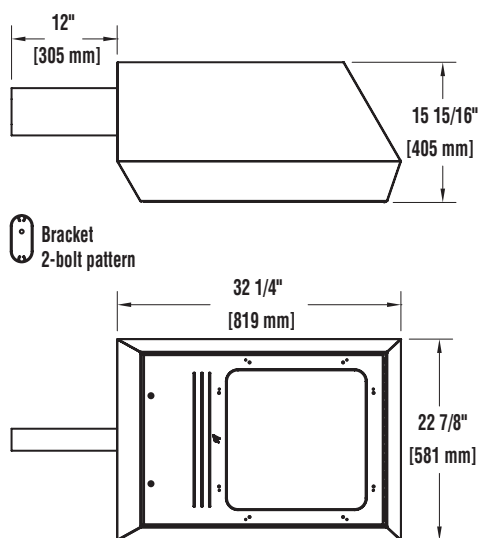


CHALLENGER® VERTICAL FLAT (Various reflectors are protected by U.S. Patent No. 6,464,378.)



DIMENSIONS



HOUSING - Radiused, rectangular shaped, die-formed aluminum. All hardware is stainless steel or electro-zinc plated steel.

DOOR FRAME - One-piece, die-formed aluminum door frame secures to the housing with one full length hinge for exceptional strength. Two stainless steel captive door fasteners allow easy access. A one-piece extruded EPDM gasket seals the door frame against the housing.

LENS/GASKET - A one-piece extruded EPDM gasket seals the tempered flat clear glass lens to the die-formed aluminum door frame.

SOCKETS - Porcelain mogul-base sockets. All sockets are factory prewired with a disconnect plug for the ballast. All sockets are pulse-rated.

LIGHT SOURCES - Pulse-Start Metal Halide, Natural White Pulse-Start Metal Halide, or Metal Halide Reduced Envelope clear lamp is supplied as standard.

BALLASTS - High-power factor ballast. Pulse-Start Metal Halide, 775 watt Natural White Pulse-Start Metal Halide and Metal Halide fixtures feature a CWA type ballast. The 575 watt Natural White Pulse-Start Metal Halide fixtures feature HX-HPF type ballasts. All ballasts are

designed for -20° F operation.

REFLECTORS/DISTRIBUTION PATTERNS-

The series is available in a variety of reflector systems and distribution patterns, all with vertical oriented lamps: Type III (3), Perimeter Forward Throw (FP), Type V (5), as well as, ART (Advanced Reflector Technology) optical systems: Automotive Forward Throw (AFT), Automotive Interior (AI), and a high performance Type V (540) for 38' - 42' mounting heights.

All reflectors are field-rotatable, enabling generous flexibility in distribution patterns without moving the fixture. Photometric data is tested in accordance with IESNA guidelines.

BRACKETS - Use with 5" traditional drilling pattern. A 2-1/2" x 5-3/8" x 12" aluminum bolt-on bracket is shipped standard. An 8" bracket is available for mounting in single or D180° configurations. A round pole plate (RPP2) is required for mounting to round poles (See Accessory Ordering Information chart).

FINISHES - Each fixture is finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, white, satin verde green, metallic silver, and graphite.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.



ARRA
Funding Compliant

LUMINAIRE EPA CHART - Challenger Vertical Flat

	8" Arm	12" Arm
	F	F
Single	2.2	2.4
D180°	4.5	4.6
D90°	12" Arm Required	4.7
T90°		7.3
TN120°		7.5
Q90°		9.1

Note: External House Side Shield adds to fixture EPA. Consult factory.

SHIPPING WEIGHTS/CARTON DIMENSIONS - Challenger Vertical Flat

Catalog Number	Est. Weight (kg/lbs.)	Length (mm/in.)	Width (mm/in.)	Height (mm/in.)
CVF	27.7 / 61	864 / 34	673 / 26.5	470 / 18.5



Project Name _____ Fixture Type _____

Catalog # _____

10/22/15

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CHALLENGER® VERTICAL FLAT

LUMINAIRE ORDERING INFORMATION



TYPICAL ORDER EXAMPLE: **CVF AFT 1000 PSMV F MT PLP 8BK**

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage	Luminaire Finish	Options
Vertical Burn CVF	3- Type III FP- Perimeter Forward Throw 5- Type V Advanced Reflector Technology Optical Systems: AFT-Automotive Forward Throw AI-Automotive Interior 540 - Type V (38' - 42' Mtg. Ht.)	575 750 775 1000	PSMV – Pulse-Start Metal Halide 750, 1000 ¹ Watt NWPSMV – Pulse-Start Metal Halide (Natural White) 575, 775 Watt MHR – Metal Halide Reduced Envelope 1000 Watt	F – Flat Clear Tempered Glass	480 MT – Multi Tap TT – Tri-Tap	BRZ – Bronze BLK – Black PLP – Platinum Plus WHT – White SVG – Satin Verde Green GPT – Graphite MSV – Metallic Silver	8BK – 8" Bracket ² PCR – Photoelectric Control Receptacle ³ LL – Less Lamp
				MT – Multi Tap consists of 120V, 208V, 240V and 277V and is prepared for highest voltage. Alternate voltages will require field adjustment. TT – Tri-Tap consists of 120V, 277V and 347V and is shipped standard for Canadian applications and is prepared for highest voltage. Alternate voltages will require field adjustment.			
						Consult Factory for International Voltages and Light Sources	

FOOTNOTES:

- Tri-Tap not available in 1000 Watt PSMV. Voltage must be specified – 120V, 277V, or 347V.
- An 8" Bracket can only be ordered with a single or D180 configuration.
- PCR factory installed and prewired for highest voltage. Alternate voltages will require field rewiring. Photocell must be ordered separately. See Accessories.

ACCESSORY ORDERING INFORMATION

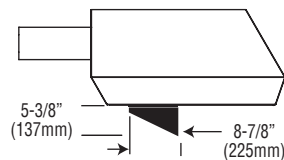
(Accessories are field installed)

Description	Order Number	Description	Order Number
PC120 – Photocell	122514+	BKU-BO-S-19-CLR Upsweep Bracket	144191CLR
PC208-277 – Photocell for 208V, 240V or 277V	122515+	CVF 3/FP/AFT HSS – House Side Shield	143587BLK+++
PC347 – Photocell	159516+	RPP2 – Round Pole Plate	162914CLR
PC480 – Photocell	1225180+		
FK120 - Single Fusing	FK120++		
FK277 - Single Fusing	FK277++		
DFK208, 240 - Double Fusing	DFK208, 240++		
DFK480 - Double Fusing	DFK480++		
FK347 - Single Fusing	FK347++		

+ Factory installed PCR option required.
++ Fusing must be located in the hand-hole of the pole, not in the fixture.
+++ Black only

HOUSE SIDE SHIELD

TYPE III and FORWARD THROW (FP and AFT) (143587BLK)



Project Name _____ Fixture Type _____

Catalog # _____

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