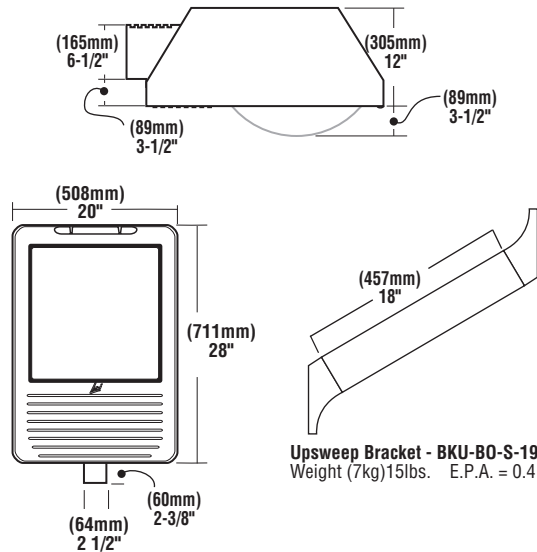


# CHALLENGER® (Various reflectors are protected by U.S. Patent No. 6,464,378.)



## DIMENSIONS



Upsweep Bracket - BKU-BO-S-19  
Weight (7kg)15lbs. E.P.A. = 0.4

## LUMINAIRE EPA CHART - Challenger

	Cast Arm		With Extension Arm	
	F	CT	F	CT
Single	1.8	2.0	2.2	2.3
D180°	3.7	4.1	4.3	4.6
D90°	Extension Arm Required		3.9	4.3
T90°			6.1	6.5
TN120°			6.3	6.9
Q90°			7.7	8.6

Note: F - Flat Glass CT - Contoured

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

## SHIPPING WEIGHTS - Challenger

Catalog Number	Est. Weight (kg/lbs.)	Length (mm/in.)	Width (mm/in.)	Height (mm/in.)
CHV	41 / 91	87 / 34.5	603 / 23.75	464 / 18.25
CHH	39 / 86	87 / 34.5	603 / 23.75	464 / 18.25

**HOUSING** - Rectangular shaped, multi-radiused, one-piece, die-cast aluminum with cast mounting arm. All hardware is stainless steel or electro-zinc plated steel.

**DOOR FRAME** - One-piece, die-cast aluminum door frame secures to the housing with two internal hinges. Two stainless steel captive door fasteners allow easy access. A one-piece extruded silicone gasket seals the door frame against the housing. The standard housing/door seal design prevents external contaminants from entering the Challenger, resulting in an IP65 rating for all versions.

**LENS/GASKET** - Contoured clear impact resistant glass lens for vertical lamp optics. A tempered flat clear glass lens or contoured clear impact resistant glass lens is offered for horizontal lamp optics. A one-piece extruded silicone gasket seals the lens to the die-cast 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, Metal Halide Reduced Envelope, or High Pressure Sodium. Clear lamp is supplied as standard.

**BALLASTS** - High-power factor ballast with removable/hinged ballast tray. Pulse-Start Metal Halide (250, 320, 400, 750 and 1000 watt), 775 watt Natural White Pulse-Start Metal Halide, Metal Halide, and High Pressure Sodium 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

- Vertical Burn systems include: Type II (2), Type III (3), Type V (5), Perimeter Forward Throw (FP), Automotive Forward Throw (FA), and ART (Advanced Reflector Technology) optical systems: Automotive Forward Throw (AFT) and Automotive Interior (AI). Horizontal Burn systems include: Type III (3), Type V (5) and Forward Throw (FT). All reflectors are field-rotatable, enabling generous flexibility in distribution patterns, without fixture movement. Photometric data is tested in accordance with IESNA guidelines.

**BRACKETS** - Use with 5" traditional drilling pattern. Cast mounting arm is flat for square pole applications. Fixture may also be mounted to round poles using the round pole adaptor accessory (RPPC), which must be ordered separately. An extruded 6" arm extension is required for D90°, Q90°, T90° and TN 120° fixture configurations. A locking nut secures two through bolts and a reinforcing plate to the pole, stabilizing it for easy fixture mounting.

**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](http://www.lsi-industries.com) for detailed photometric data.



IP65



wet location

**ARRA**  
Funding Compliant



# CHALLENGER®

## LUMINAIRE ORDERING INFORMATION



TYPICAL ORDER EXAMPLE: **CHV 5 1000 MHR CT MT MSV PCR**

Luminaire Prefix	Distribution	Lamp Wattage	Light Source	Lens	Line Voltage	Luminaire Finish	Options
Vertical Burn CHV	2-Type II 3-Type III 5 - Type V FP- Forward Throw Perimeter FA-Automotive Forward Throw	250 320 400 575 750 775 1000	PSMV – Pulse-Start Metal Halide 250, 320, 400, 750, 1000 <sup>1</sup> Watt NWPSMV – Pulse-Start Metal Halide Natural White 575, 775 Watt MHR – Metal Halide Reduced Envelope 1000 Watt HPS – High Pressure Sodium 250,400,750 <sup>2</sup> Watt	CT – Contoured Clear Impact-resistant 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	PCR - Photoelectric Control Receptacle <sup>4</sup> LL - Less Lamp
	Advanced Reflector Technology Optical Systems: AFT-Automotive Forward Throw AI-Automotive Interior	575 750 775 1000	PSMV – Pulse-Start Metal Halide 750, 1000 <sup>1</sup> Watt NWPSMV – Pulse-Start Metal Halide Natural White 575, 775 Watt MHR – Metal Halide Reduced Envelope 1000 Watt				
Horizontal Burn CHH	3 – Type III FT – Forward Throw 5 – Type V	250 320 400 750 775 1000	PSMH – Pulse-Start Metal Halide 250, 320, 400, 750, 1000 <sup>1</sup> NWPSMH – Pulse-Start Metal Halide Natural White 775 Watt MHR – Metal Halide Reduced Envelope 1000 Watt HPS – High Pressure Sodium 250, 400, 750 <sup>2</sup> Watt	F – Flat Clear Tempered Glass  CT – Contoured Clear Impact-resistant Glass <sup>3</sup>			
					Consult Factory for International Voltages and Light Sources		

**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.

### FOOTNOTES:

- 1- Tri-Tap not available in 1000 Watt PSMV. Voltage must be specified – 120V, 277V, or 347V.
- 2- When ordering 750 Watt High Pressure Sodium, voltage must be specified.
- 3- Use to match vertical appearance.
- 4- Factory installed PCR requires field wiring to proper voltage. Photocell must be ordered separately, see Accessories.

### ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
PC120 – Photocell	122514+	CHH/CHV 3 HSS – External House Side Shield	143587BLK+++
PC208-277 – Photocell for 208V, 240V or 277V	122515+	CHV FA/AFT HSS – External House Side Shield	143587BLK+++
PC347 – Photocell	159516+	CHH/CHV FP/FT HSS – External House Side Shield	143587BLK+++
PC480 – Photocell	1225180+	RPPC – Round Pole Plate	141940CLR
FK120 - Single Fusing	FK120++	BKS-BO-WM-* -CLR Wall Mount Plate	123111CLR
FK277 - Single Fusing	FK277++	BKA-BO-EC-6-CLR Extension Arm	
DFK208, 240 - Double Fusing	DFK208, 240++	Required for multiple mounting @ all 90° & 120° configurations	142862CLR
DFK480 - Double Fusing	DFK480++	BKU-BO-S-19-CLR Upsweep Bracket for round and square poles	144191CLR
FK347 - Single Fusing	FK347++		
CHH/CHV 2 HSS – External House Side Shield	143586BLK+++		

+ 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

