

lsi
Lighting Solutions plus



THE CHALLENGER[®] SERIES

*Enabling You To Extend
Your Architectural
Statement*



THE CHALLENGER® FAMILY – THE POWER OF VERSATILITY

From the roadway, through the parking lot, down the walkway – and all points of illumination in between – the Challenger family offers you the ultimate lighting solution through style and performance.

Offering multiple housing sizes, reflector and lamp choices plus a variety of mounting options, Challenger delivers an integrated package of luminaire possibilities.

The convenience of choice offered by the Challenger family means that no matter what you desire in lighting – the Challenger family gives you the look and feel you want.



◀ **The Challenger** – Featuring a die-cast aluminum housing, available with Vertical or Horizontal Burn optical systems. Up to 1000 Watt.



The Challenger II Medium – ▶ Featuring a die-formed aluminum housing, available with Vertical or Horizontal Burn optical systems. Up to 400 Watt.



▲ **The Challenger Wall Sconce** – For indoor or outdoor applications, featuring a die-formed aluminum housing, available in small (50-150 watts HID plus 26/32/42 CFL) and medium sizes (250 & 400 watts HID plus 26-70 CFL).

ARCHITECTURAL APPEAL AND CONTINUITY THROUGHOUT YOUR SITE

The Challenger Family features a versatile, integrated package of solutions:

- Challenger Series
- Challenger II Medium Series
- Challenger Wall Sconce Series

Each fixture performs a separate and distinct lighting function, yet all three share a common set of characteristics:

- Construction quality of the highest standards
- High performance optics and total optical flexibility
- Progressive, aerodynamic styling
- Ease of installation
- Ease of maintenance



MOUNTING OPTIONS EXTEND THE CHALLENGER'S POSSIBILITIES



In addition to the attractive standard mounting arm, Challenger and Challenger II Medium fixtures are available with a variety of mounting options to provide even greater design and application flexibility:



Radius Arm Adaptor – For a new level of design flexibility, continuity and flair, this attractive cast aluminum mounting arm option is compatible with area light Challenger and Challenger II Medium fixtures.



Mast Arm Adaptor – This cast aluminum mounting arm adaptor allows the Challenger and Challenger II Medium to be easily configured for roadway and area lighting applications. (mast arm shown is by others)

LUMINAIRE FINISHES

Each Challenger and Challenger II Medium fixture is finished with DuraGrip®, LSI's baked-on, polyester-powder coat finishing process. LSI's DuraGrip finish withstands weather changes without cracking or peeling, and is guaranteed for 5 full years.



METALLIC SILVER



BLACK



WHITE



GRAPHITE



PLATINUM PLUS



SATIN VERDE GREEN



BRONZE



THE POWER OF CHOICE

The Challenger and Challenger II Medium fixtures provide you the choice between high-performance Horizontal or Vertical burn, depending on your design and zoning requirements.

HIGH-PERFORMANCE HORIZONTAL BURN

WHEN YOUR LIGHTING REQUIREMENTS INCLUDE SHARP CUTOFF LUMINAIRES WITH A HIGH DEGREE OF LIGHT CONTROL, SPECIFY HORIZONTAL BURN.

Utilizing a flat lens, horizontal lamp orientation and high-performance reflectors, Horizontal Burn fixtures allow you to place more direct emphasis on ground elements without sacrificing uniformity. An excellent choice for areas with strict zoning requirements.



MEETS IESNA FULL CUTOFF CLASSIFICATION

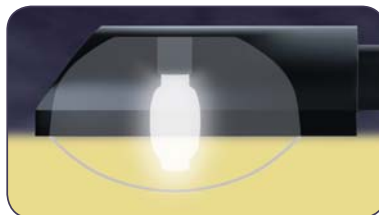


ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) FULL CUTOFF GUIDELINES –
A light fixture with a light distribution where no candela (light) occurs at or above an angle of 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10%) at a vertical angle 80° above nadir. This applies to all lateral angles around the luminaire

HIGH-PERFORMANCE VERTICAL BURN

UTILIZING A CONTOURED LENS, VERTICAL BURN FIXTURES CONTROL LIGHT OUTPUT AND DISTRIBUTE LIGHT MORE EVENLY OVER A LARGER AREA.

High-performance reflectors surround the vertically oriented lamp to deliver brilliant light plus provides maximum lighting distribution and uniformity. This creates better “see-ability” and efficiency using fewer fixtures, thus lowering your total cost of ownership.



Challenger and Challenger II Medium fixtures with contoured lens meet IESNA cutoff and semi-cutoff classification requirements.

BEYOND THE VISUAL APPEAL – CHALLENGER DELIVERS HIGH PERFORMANCE AND VERSATILITY

The Challenger Family represents more than an aesthetic lighting solution. It also represents high performance and optimal efficiency.

- The Challenger and Challenger II Medium give you a variety of lamp choices, including high-performance, energy-efficient Pulse-Start Metal Halide.

Pulse-Start Metal Halide delivers the white light of Metal Halide, and the energy efficiency and lumen maintenance of High Pressure Sodium.

Consider the benefits:

- Available in 175, 250, 320, 400, 750 & 1000 Watts
- Longer lamp life
- More lumens per watt
- Better lumen maintenance; more light output over time
- Improved color stability; less color shift
- Faster warm-up
- Quicker Restrike

GENERAL COMPARISON OF METAL HALIDE, HIGH-PRESSURE SODIUM AND PULSE-START METAL HALIDE TECHNOLOGY*

Feature	Standard M.H.	Pulse-Start Metal Halide	H.P.S.
Color	White	Whiter	Yellow
Efficiency (L/W)	60-85	90-110	100-125
Lumen Maint.	65%	80%	90%
Lamps	175-1000	35-1000	35-1000
Lamp Life (kHrs)	6-16	10-30	24+

*Reprinted with permission from Advance Transformer Co.



DISCOVER THE POWER OF CHALLENGER

CHALLENGER SERIES - At first glance, the sleek, aerodynamic design of the Challenger Series may appear to be a case of form over function. But, the fact is, this die-cast fixture packs the same traditional features of bigger fixtures into a single, versatile, specification grade luminaire.

The Challenger Series is available in vertical or horizontal burn, with a variety of reflectors, lamps and mounting options. Look closely and you will see that function has been engineered into every aspect of this innovative lighting solution.

COMPACT HOUSING

One-piece, die-cast aluminum, low-profile housing. The Challenger's sleek, aerodynamic design combines the features of bigger fixtures in a single, versatile compact luminaire, dramatically lowering EPAs, rendering traditional shoebox fixtures obsolete.



THE CHALLENGER VS. SHOEBOX EPA COMPARISON

Challenger Horizontal Burn	1.8
Shoebox Horizontal Burn	3.2
Challenger Vertical Burn	2.0
Shoebox Vertical Burn	4.4

DOOR FRAME

One-piece, die-cast aluminum door is removable for ease of installation and maintenance.

PROTECTIVE GASKET

Extruded silicone gasket ensures sealed optics, helping to keep housing and ballast compartment free from insects, moisture and debris.



IP65 RATING

Standard design completely seals the Challenger housing from penetration of external contaminants, which allows for IP65 rating.

CONTOURED OR FLAT GLASS LENSES

Choose from contoured impact resistant glass or flat tempered glass lenses.

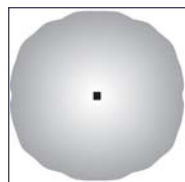


**IP65
Rated**

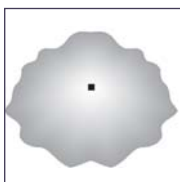
REFLECTOR OPTIONS

A variety of reflector systems are available to give you the distribution pattern that best meets your needs. Reflectors are field rotatable for even greater flexibility. Various reflector models are protected by U.S. Patent 6,464,378.

**VERTICAL BURN
TYPE 5**



**VERTICAL BURN
TYPE 3**



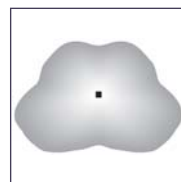
**VERTICAL BURN
TYPE FA**



**HORIZONTAL BURN
TYPE FT**

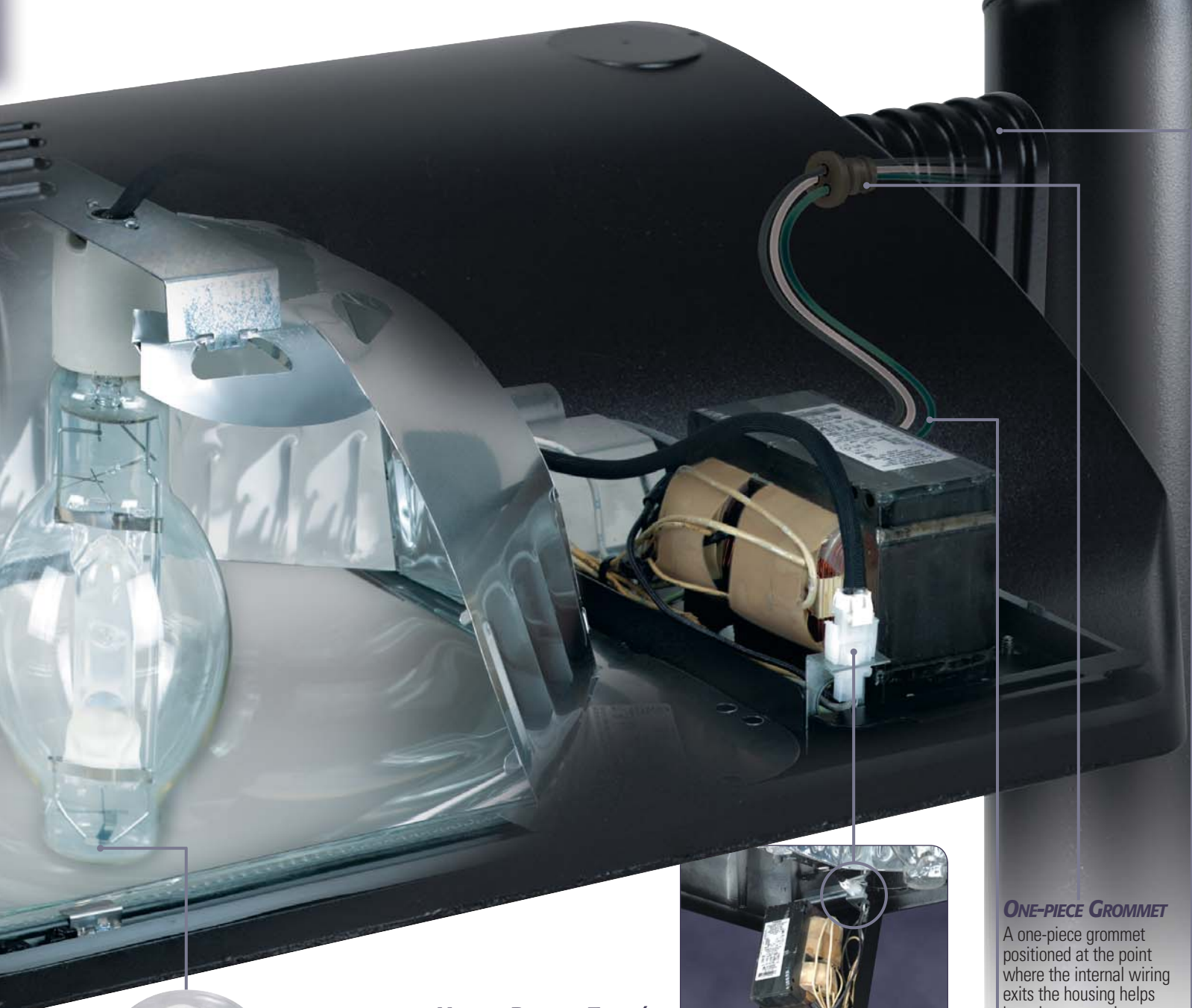


**HORIZONTAL BURN
TYPE 3**



Please visit our website at www.lsi-industries.com for detailed photometric data.

**See Ordering Information Chart
for other reflector options**

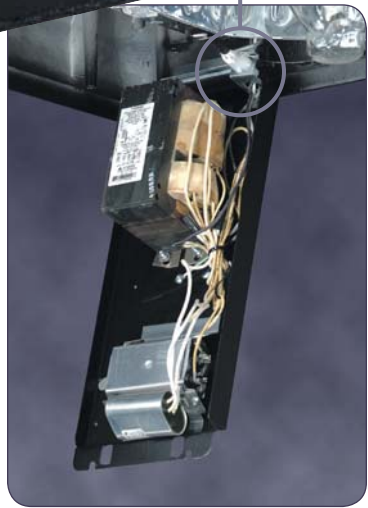


LAMP OPTIONS

Choose from Pulse-Start Metal Halide, Natural White Pulse-Start Metal Halide, Metal Halide, Metal Halide Reduced Envelope or High Pressure Sodium lamps.

HINGED BALLAST TRAY / QUICK-CONNECT WIRING

Removable ballast tray with tool-less release mechanism ensures hassle-free maintenance. A reflector quick-disconnect is standard.



ONE-PIECE GROMMET

A one-piece grommet positioned at the point where the internal wiring exits the housing helps keep insects, moisture, and dust out of the housing and ballast compartment.

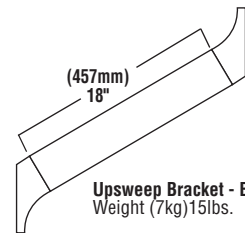
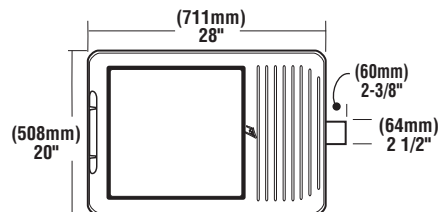
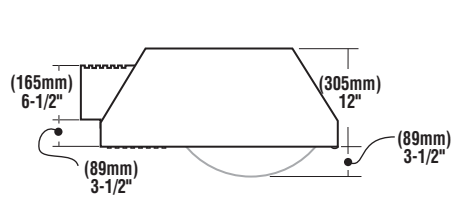
SUPPLY CONDUCTORS

Shipped standard for ease of installation.

MOUNTING ARM

An integral die-cast, mounting arm permits ease of installation. An extruded extension arm accessory is available for other than single or D180 mountings.

DIMENSIONS



Upsweep Bracket - BKU-B0-S-19
Weight (7kg)15lbs. E.P.A. = 0.4

THE PERFECT BLEND OF PERFORMANCE AND STYLE

CHALLENGER II MEDIUM SERIES - Constructed of die-formed aluminum. Choose from a variety of reflector and lamp options, in either vertical or horizontal burn, for the optical package you need. The Challenger II Medium Series' refined curves make this professional grade fixture one of the industry's best values in site lighting.

LOW-PROFILE HOUSING

Formed aluminum construction and a compact, aerodynamic housing design work to significantly lower EPAs.



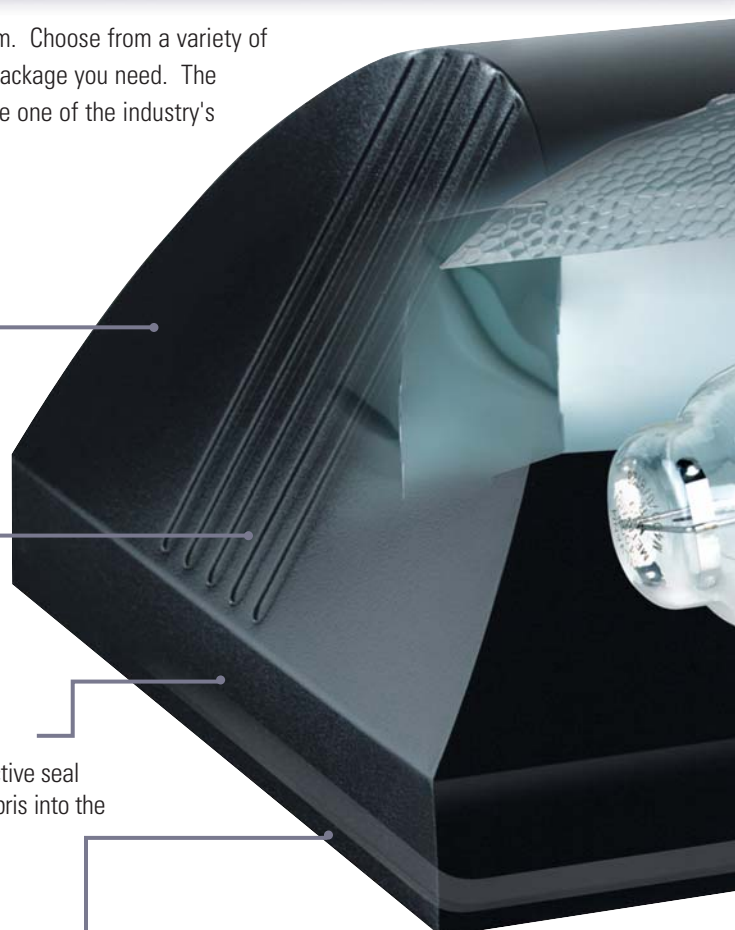
ARCHITECTURAL APPEAL

Sleek, smooth lines and refined curves enhance the architectural integrity of your site.



PROTECTION FROM THE ELEMENTS

A one-piece, extruded gasket forms a protective seal to prevent entry of insects, moisture and debris into the housing and ballast compartment.



DOOR

- The Challenger II Medium Medium door hinges from front of fixture.

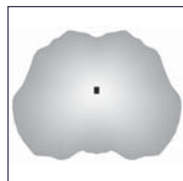
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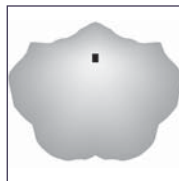
See Ordering Information Chart for other reflector options

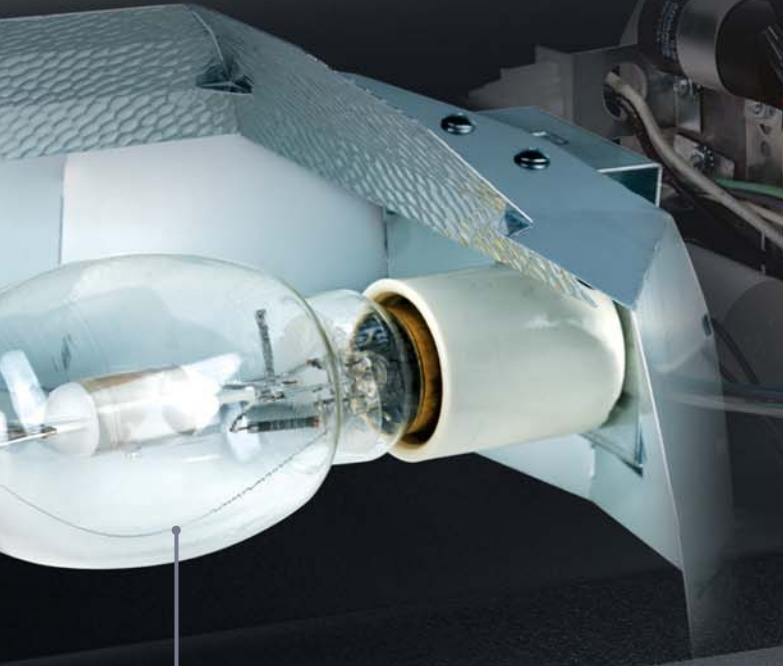
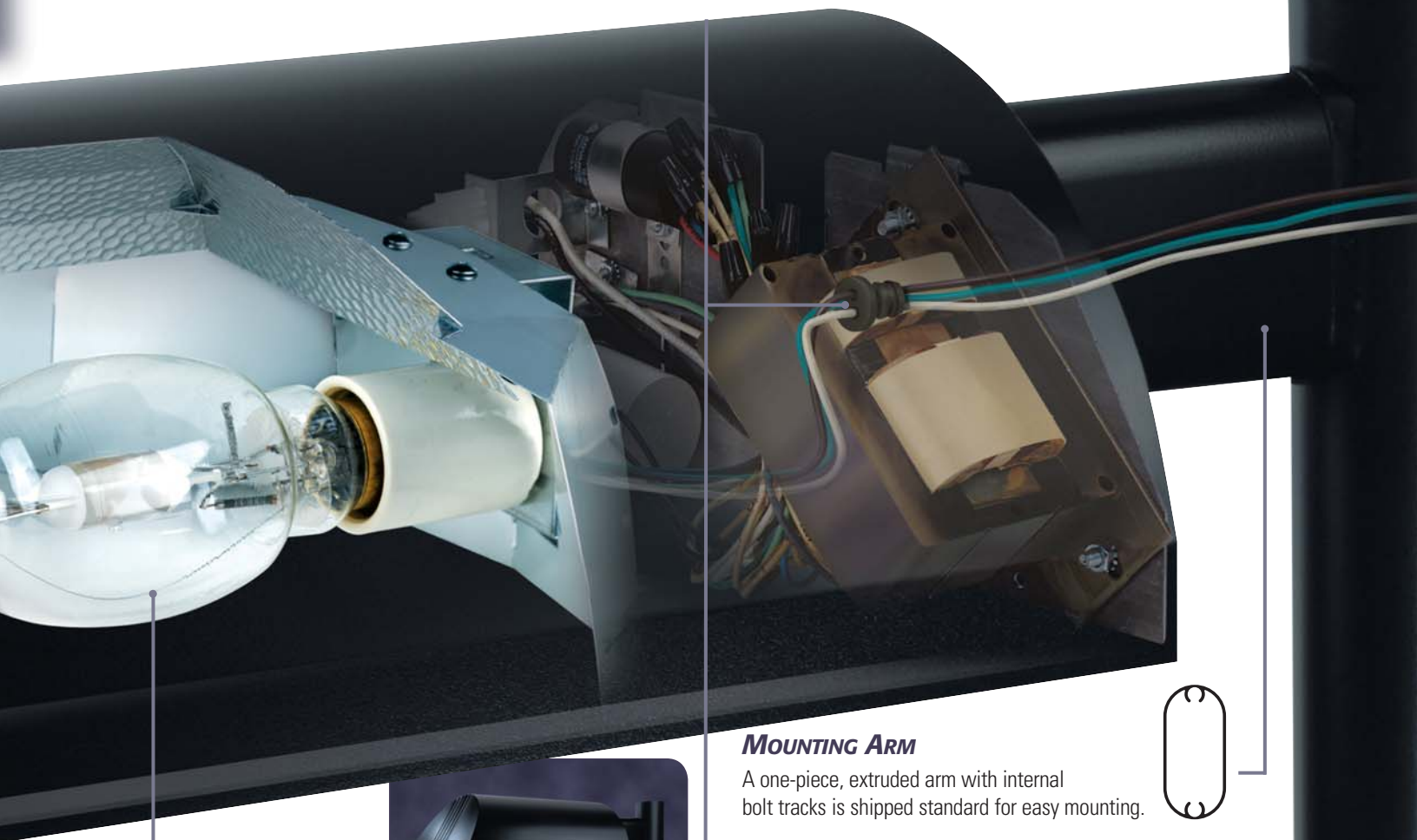
MEDIUM

**HORIZONTAL BURN
TYPE 3**



**VERTICAL BURN
TYPE FP**





LAMP OPTIONS

Choose from Pulse-Start Metal Halide, Ceramic Metal Halide, Metal Halide, or High Pressure Sodium lamps.



CONTOURED OR FLAT GLASS LENSES

Choose from contoured impact resistant glass or flat tempered glass lenses. All lenses are sealed to lens frames with EPDM gasketing.

MOUNTING ARM

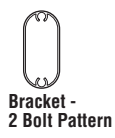
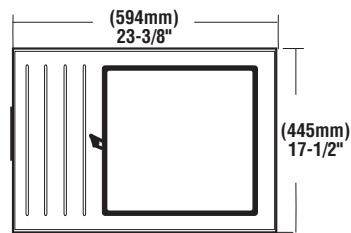
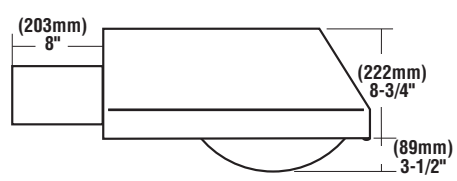
A one-piece, extruded arm with internal bolt tracks is shipped standard for easy mounting.



ONE-PIECE GROMMET / SUPPLY CONDUCTORS

- A one-piece grommet, positioned at the point where the internal wiring exits the housing, helps to keep insects, moisture and dust out of the housing and ballast compartment.
- Supply conductors are shipped standard for ease of installation.

DIMENSIONS





A Company with a *Smart Vision*

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LSI LIGHTING SOLUTIONS PLUS
 10000 Alliance Road
 Cincinnati, Ohio 45242
 (513)793-3200 FAX (513)793-0147
www.lsi-industries.com



ARRA
 Funding Compliant



THE POWER OF IMAGE

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