



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

HOUSING - The aerodynamic aluminum housing is a rectangular shape. All mounting hardware is stainless steel or electro-zinc plated steel.

WALL MOUNT - A galvanized-steel universal wall mounting plate easily mounts directly to a 4" octagonal or square junction box. An EPDM gasket is supplied to be installed between the mounting plate and junction box, sealing the junction box from entrance of water. The galvanized-steel universal plate allows the fixture to securely attach to the mounting plate using a unique clamping design which is locked into place with two hex-head screws. The universal plate permits the fixture to be mounted in the uplighting position (listed for damp locations) or downlighting position (listed for wet locations).

DOOR FRAME - The aluminum door frame with two stainless steel captive fasteners allows easy access into the fixture. A one piece extruded silicone gasket seals the door frame against the housing. The door swings open and is held in place by a retainer.

LENS/GASKET - A flat clear tempered glass lens, which is sealed to the door frame with EPDM gasketing, is standard. An optional polycarbonate lens is available on most Compact Fluorescent fixtures.

SOCKETS - HID lampholders are glazed porcelain, medium base for the Small fixture and mogul base for the Medium fixture, 4KV pulse rated. The Compact Fluorescent fixtures feature a one-piece thermoplastic socket.

LIGHT SOURCES - The fixture is designed to operate with horizontal Pulse-Start Metal Halide, Pulse-Start Metal Halide Reduced, Super Metal Halide, Super Metal Halide Reduced, Metal Halide, Metal Halide Reduced, High Pressure Sodium, and single, double or triple Compact Fluorescent lamps. Lamps supplied as standard – HID (clear, shipped installed), and Compact Fluorescent (coated, 4100K shipped in separate carton).

BALLASTS/ELECTRICAL COMPONENTS - Electrical components are factory-mounted in housing and prewired with voltage specific leads which extend out the back of the unit through a rubber grommet. This grommet prevents the entry of insects, dust, and moisture into the fixture. The need to open the fixture to make wiring connections is eliminated, thus making installation quick and easy. UL listed HID components with high-power factor ballasts rated for -20° F starting. Compact Fluorescent ballasts are Electronic Universal Voltage (120-277V, 50/60Hz) or 347V (60Hz), 0° F starting. Compact Fluorescent fixtures with UE (Universal Electronic) voltage are available with an optional dimming ballast for multiple types of controls such as building lighting controls and occupancy sensors. Available battery back-up is 120 or 277 voltage specific with 32° F rated starting temperature for U.S. applications for 26 watt through 70 watt lamps. Consult factory for available wattages and voltages for use in Canada.

EMERGENCY OPERATION - A variety of integral emergency options are available to comply with Life Safety Codes which require emergency lighting along the path of egress on the building's exterior, so building occupants can exit safely. Integral Emergency Battery Back-up option is available on Compact Fluorescent units. Emergency Quartz options are offered on HID units. Options for one or two 12 volt separate circuit(s), for use with up to 35 watt Halogen lamp(s) are available on both Compact Fluorescent and HID units.

REFLECTORS/DISTRIBUTION PATTERNS - Forward Throw (FTM, FT) and Type III (3) reflectors are available on small and medium. Wall Wash (WW) reflectors are also available on small. All are high performance, full cut-off distribution as defined by the IESNA (downlight position only). Photometric data is tested in accordance with IESNA guidelines.

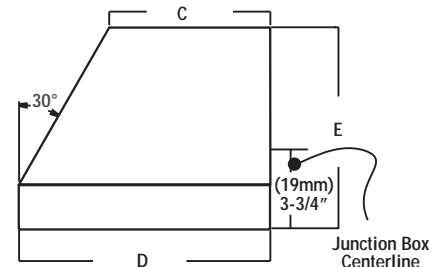
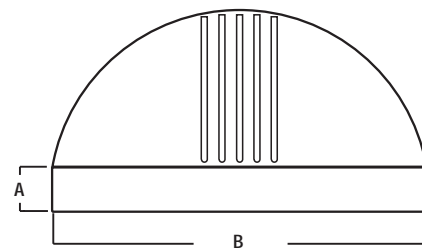
FINISHES - Each fixture is finished with LSI's DuraGrip® polyester-powder finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, buff, white, satin verde green,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

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

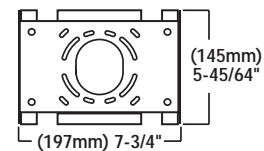


Flat-lensed fixtures meet IESNA full cutoff classification.

DIMENSIONS



| | A | B | C | D | E |
|--------|------------------|--------------------|---------------------|---------------------|--------------------|
| Small | (48mm) 1-7/8" | (448mm) 17-5/8" | (144mm) 5-21/32" | (244mm) 9-5/8" | (222mm) 8-3/4" |
| Medium | (60mm) 2-3/8" | (508mm) 20" | (219mm) 8-5/8" | (341mm) 13-7/16" | (273mm) 10-3/4" |



Universal Mounting Plate

SHIPPING WEIGHTS - Challenger Wall Sconce

| Catalog Number | Est. Weight (kg / lbs.) | Length (mm / in.) | Width (mm / in.) | Height (mm / in.) |
|----------------|-------------------------|-------------------|------------------|-------------------|
| CHWS-HID | 10 / 22 | 616 / 24.25 | 394 / 15.5 | 343 / 13.5 |
| CHWM-HID | 15 / 32 | 616 / 24.25 | 394 / 15.5 | 419 / 16.5 |
| CHWS-CFL | 8 / 17 | 616 / 24.25 | 394 / 15.5 | 343 / 13.5 |
| CHWM-CFL | 11 / 24 | 616 / 24.25 | 394 / 15.5 | 419 / 16.5 |



wet location
(Downlight only)

damp location
(Uplight - covered locations only)



Project Name _____ Fixture Type _____
 Catalog # _____



CHALLENGER® WALL SCNCE

LUMINAIRE ORDERING INFORMATION

| Luminaire Prefix | Distribution | Lamp Wattage | Light Source | Lens | Line Voltage ³ | Luminaire Finish |
|------------------|------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHWS (Small) | 3 - Type III FT - Forward Throw WW - Wall Wash | 50 | MH - Metal Halide 50, 70, 100 ¹ , 150, 175 Watt HPS - High Pressure Sodium 50, 70, 100, 150 Watt | F- Flat Clear Tempered Glass | 120 208 240 277 347 | BRZ - Bronze BLK - Black WHT - White PLP - Platinum Plus BUF - Buff SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver |
| | | 70 | | | | |
| | | 100 150 175 | | | | |
| CHWM (Medium) | FTM - Forward Throw Medium WW - Wall Wash | 26 | CFL - Compact Fluorescent Single 26, 32, 42 Watt CFL2 - Compact Fluorescent Double 26, 32, 42 Watt CFL - Compact Fluorescent Single 26, 32, 42 Watt | F- Flat Clear Tempered Glass FPC - Flat Clear Polycarbonate | UE - Universal Electronic (120-277V 50/60Hz) 347 ⁴ | |
| | | 32 | | | | |
| | | 42 | | | | |
| CHWS (Small) | 3 - Type III FT - Forward Throw | 250 | PSMH - Pulse Start Metal Halide 250, 320 Watt PSMHR - Pulse Start Metal Halide Reduced 400 Watt SMH - Super Metal Halide 250 Watt SMHR - Super Metal Halide Reduced Envelope 400 Watt MH - Metal Halide 250 Watt MHR - Metal Halide Reduced Envelope 400 Watt HPS - High Pressure Sodium 250, 400 Watt | F- Flat Clear Tempered Glass | 120 208 240 277 347 480 | |
| | | 320 | | | | |
| | | 400 | | | | |
| CHWS (Small) | 3 - Type III FT - Forward Throw | 26 | CFL - Compact Fluorescent Single 57, 70 Watt CFL2 - Compact Fluorescent Double 57, 70 Watt CFL3 - Compact Fluorescent Triple 26, 32, 42 Watt | F- Flat Clear Tempered Glass FPC - Flat Clear Polycarbonate ² | UE - Universal Electronic (120-277V 50/60Hz) 347 ⁴ | |
| | | 32 | | | | |
| | | 42 57 70 | | | | |

CHWS 3 175 MH F 120 BRZ SQT

EXAMPLE OF A TYPICAL ORDER

FOOTNOTES:

- 1- Supplied with a HX-HPF transformer as standard. Also available with a 120/277 volt CWA transformer. Consult factory.
- 2- If a polycarbonate lens is required on an Uplight Medium fixture in 70 CFL2 or 42 CFL3, the glass lens with Polycarbonate Shield (CHWM PLS) accessory must be ordered.
- 3- For international voltages, consult factory.
- 4- 347V CFL is not available with dimming ballast (DIM) option. Consult factory for battery back-up (BB) option.
- 5- Tamper-proof Screwdriver must be ordered separately (See Accessory Ordering Information)
- 6- CFL Dimming Control by others.
- 7- HID lamp wattages 50 and 70 are supplied with a 50 watt, 120V quartz lamp. HID lamp wattages 100 through 250 are supplied with a 100 watt, 120V quartz lamp. HID lamp wattage 400 is supplied with a 250 watt, 120 V quartz lamp.
- 8- Available on 100 watt minimum HID fixtures. HID lamp wattages 100 through 175 are supplied with two 50 watt, 120V quartz lamps. 250 and 400 watt HID fixtures are supplied with two 100 watt, 120V quartz lamps.
- 9- Battery Back-up available on single, double and triple 120 or 277 voltage specific units for U.S. applications. Please change Line Voltage of UE to 120 or 277 when ordering this option. On double and triple units, one lamp will be energized by Battery Back-up (BB) option. Consult factory for specific Means of Egress job application compliance.
- 10- Utilizes GY6.35 socket(s). 12 volt separate circuit(s) required.

| Options |
|--------------------------------------------------------------------------------------------|
| PCI120 - Button-Type Photocell |
| PCI208 - Button-Type Photocell |
| PCI240 - Button-Type Photocell |
| PCI277 - Button Type-Photocell |
| PCI347 - Button Type-Photocell |
| TP - Tamper Proof ⁵ |
| PMA - Pole Mount Adaptor for use with square poles |
| PMAR - Pole Mount Adaptor for use with round poles |
| DIM - CFL Control Voltage Dimming Ballast ⁶ |
| C - Coated MH or PSMH Lamp |
| SQT - Standby Quartz (Time Delay) ⁷ |
| SNQ - Standby Quartz (Non-Time Delay) ⁷ |
| EQ - Emergency Quartz (separate circuit - HID only) ⁷ |
| EQ2 - Two Emergency Quartz (2 separate 120V circuits - HID only) ⁸ |
| BB - CFL Battery Back-up ⁹ |
| EM1 - One Emergency 12V Circuit Provision with 35 Watt Halogen Lamp ¹⁰ |
| EM1LL - One Emergency 12V Circuit Provision - Less Halogen Lamp ¹⁰ |
| EM2 - Two Emergency 12V Circuit Provisions with (2) 35 Watt Halogen Lamps ¹⁰ |
| EM2LL - Two Emergency 12V Circuit Provisions - Less Halogen Lamps ¹⁰ |
| LL - Less Lamp |

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

| Description | Order Number | Description | Order Number |
|-----------------------------|--------------|--------------------------------------------|--------------|
| FK120 - Single Fusing | FK120+ | CHWS PLS - Polycarbonate Shield for Small | 172786 |
| FK277 - Single Fusing | FK277+ | CHWM PLS - Polycarbonate Shield for Medium | 172787 |
| DFK208, 240 - Double Fusing | DFK208, 240+ | SW BLK - Surface Wiring Box | 173156BLK+++ |
| DFK480 - Double Fusing | DFK480++ | SCD - Tamper-proof Screwdriver | 36449 |
| FK347 - Single Fusing | FK347+ | | |

+ Available on HID fixtures only. Fusing to be installed in a compatible junction box supplied by contractor.
 ++ Available on HID Medium fixture only. Fusing to be installed in a compatible junction box supplied by contractor.
 +++SW BLK not compatible with PMA or PMAR option.



Project Name _____ Fixture Type _____
 Catalog # _____