For 55 years, we’ve built our products to a superior standard of quality and craftsmanship, using only the finest raw materials and components available. We’ve also built our business to a superior standard of consistency and reliability.

We inspect every piece we manufacture, multiple times, for fit and finish. Each of our designs is precision engineered, backed by ISO 9001 Certification. And our comprehensive warranties exceed industry standards.

But that doesn’t entirely explain how we became the industry leader. There’s another important area where we excel.

Service.

Smart. Prompt. And flexible.

At HADCO, it has to be – because we provide the broadest selection of styles, finishes, and lamping options in the industry. Our superior service helps you navigate the choices and ensures that you’re getting just what you need. When you need it. Even if we have to custom design it.

When you light with HADCO, you can rest assured it’ll be done right. On time.

That’s why more and more architects and designers depend on HADCO. Because they know what they’ll get. Satisfaction.
HADCO's Low Voltage Lighting System offers the greatest versatility with up to 1,000 fixture combinations for every landscape lighting application. High performance halogen lamps, available in many styles, produce greater lumen output and last longer than conventional incandescent lamping. HADCO Low Voltage transformers include a multiple-tap voltage setting that allows for easy adjustment of load and distance variations. Fixture housings are constructed of the most durable materials that include die-cast aluminum, composite, stainless steel, copper, cast bronze and die-cast brass. All painted finishes are applied through a special five-stage powdercoat process to retain their beautiful appearance for many years.
For projects requiring optimal performance, HADCO’s line voltage outdoor fixtures provide exceptional photometric quality and lamping flexibility. The line voltage system is designed to operate utilizing lamping options such as incandescent, fluorescent or HID for covering a wide range of applications. Line voltage systems are ideal for large-scale landscape or commercial projects, with fixtures made of durable composite, or die-cast aluminum, brass or stainless steel, ideal for public settings. And with a variety of photometric choices, plus optional accessories such as concrete pour kits, lenses, louvers, barn doors, mounting stanchions, and more, HADCO fixtures easily conform to the architect’s vision.
SPOT LIGHTING
Interesting features, architecture and statuary can be showcased at night with a focused beam of light. When possible, positioning the spotlight overhead minimizes glare and tends to supply a direct light path to the subject.

SILHOUETTING
A great way to highlight trees and plants with interesting branch structure. Placing a fixture directly behind the subject and pointing it at a vertical surface displays a dark outline of the subject to the foreground observer. This technique accents the shape of an object, but not the color or texture.

SHADOWING
Another way to highlight interesting shapes and branch structure. Place a fixture directly in front of the subject and aim the light through it to cast a shadow on a vertical surface. To enlarge the shadow, position the luminaire closer to the subject. This type of lighting also adds security to a home or business.

SIGN LIGHTING
Well-placed floodlytes keep signs working after dark. Optics should be selected to complement the orientation of the sign: horizontal flood optics are ideal for lighting across a wide object, while vertical optics better illuminate tall objects.

MOON LIGHTING
Concealing a fixture in a tree and aiming it downward creates the tranquil effect of light filtering through the branches on a moonlit night. Moon lighting fixtures should be hidden and positioned as high as possible. For a complementary effect, a luminaire may be installed on the ground and pointed upward to illuminate the tree itself.

UPLIGHTING
An excellent way to highlight the beauty of trees and architectural design. Repeating patterns in architecture (including windows, archways, etc.) and flowering trees come alive with the proper uplighting treatment.

WALKWAY LIGHTING
Used primarily to create a symmetrical pattern of light for navigation. Fully shielded fixtures may be positioned along landscape cutouts and pathways to add safety, security and visibility at night. Partially shielded lights may be positioned behind taller greenery; this allows light to filter through onto paths and distributes more illumination throughout the landscape.

SPREAD LIGHTING
The technique of low-level, evenly dispersed illumination for flowers, shrubs and other types of ground cover. Fully shielded luminaires work best to reduce glare. However, partially shielded fixtures may be positioned in deeper foliage landscapes where the additional light will serve to backlight greenery. Spread lighting may also be used underwater to illuminate an ornamental pond.
FOUNTAIN LIGHTING
Underwater illumination amplifies the dramatic effect of fountains, adding visual warmth and interest to parks, town squares and shopping centers. To use the water as a mirror, light the area behind the reflecting surface. Also, add colored lenses for dramatic effect.

POND LIGHTING
Unlock the natural beauty of a pond or water garden after sundown by highlighting with underwater fixtures. In addition to extending the charm of the feature after dark, pond lighting gives you the option of using color lenses for different atmospheric effects.

GRAZING
An ideal approach to bring out the textured beauty of stone or brick retaining walls, privacy fences, chimneys, and other interesting masonry. Achieved by positioning a luminaire within six to eight inches of a façade and aiming it 90° vertically.

DOWNLIGHTING
The common technique of mounting lights high in trees to broadcast over a wide area. This type of installation creates general ambient light for backyard entertaining … and also illuminates for safety and security. Downlighting fixtures can also be installed under eaves of a structure to highlight architectural detail.

STEP LIGHTING
Using light to accent steps pays dividends in beauty and safety, allowing visitors to navigate with ease. Fixtures can be recessed into step risers, underneath railings, and as surface lights on vertical posts.

DECK LIGHTING
Another way to enhance safety and accent design. Spotlight changes in elevation, deck edges, and drop-offs. Fixtures can be concealed beneath benches, underneath railings, and as surface lights on vertical posts.

SECURITY LIGHTING
Eliminating dark areas where intruders can hide is an effective crime deterrent. Security lighting can be created without harsh glare by installing low-level lighting or accent lighting in and around the landscape of a home or business. The right combination will improve both appearance and security.
In your mind’s eye, you’ve already captured the power and beauty of light. You can rely on HADCO for the broad range of tools you’ll need to project that vision.

**Quick Tips**

- An ice blue lens enhances the colors of evergreen foliage and also “cools off” a halogen lamp like the MR16, giving it the appearance of moonlight.

- When installing low voltage spread lights in a bed of annual flowers, use the S6 adjustable stake so the fixture can be raised as the flowers grow.

- To help conceal the light source, use a cutoff louver such as the ML1 for the BL616 or the ICG16 for the IL116.

- To reduce glare, adjust the shroud on bullytes.

- To avoid poisoning trees, use only stainless steel or cadmium-plated steel fasteners when mounting fixtures.

- When attaching low voltage cable to a tree, use a wire tie with a grommet end. This allows the cable to flex slightly off the tree, preventing damage to both.

---

### Security Lighting

Light on all walls of the home serves to minimize hiding places for unwelcome visitors.

### Uplighting

An ideal place to apply uplighting ... shining skyward toward an area of architectural interest.

### Silhouetting

Lighting the wall behind this tree accentuates its interesting shape and branch structure.

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SHADOWING
This technique allows the designer to paint walls with non-light, generating added dimensions by repeating forms in shadow.

Grazing
The textured beauty of stone masonry becomes a striking feature when grazed with light.

Walkway
The repeated symmetry of this walkway lighting guides visitors while accenting the line of the path in the design, all with minimum glare.

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FINISHES AND MATERIALS

THE PROPER FIT AND FINISH

Some lighting fixtures should be statements unto themselves; others should blend into the environment they serve. A fixture that improperly stands out from its surroundings will distract from the artistry of the application. That’s why choosing the right material and finish is just as important as choosing the right lamp.

To maximize your choices, HADCO offers an assortment of materials in a spectrum of finishes, each painstakingly developed to harmonize and endure in naturally occurring environments.

Our new ULTEM® High-Performance Polymer is a brand new composite material that resists chipping, flaking and fading. Perfect for harsh environments, these composite fixtures are available in Black, Bronze and Verde … ready to blend into common varieties of soil, mulch or vegetation.

Our die cast aluminum fixtures feature thermoset powdercoat finishes for lasting beauty and durability. In addition to Black, Bronze, Verde and White, other finishes are available for a variety of applications. Garden Green blends into darker vegetation, Sienna matches landscape stone, and Speckled Stone takes its cues from the color palette of the desert. As for Old Marble and Silver – each makes its own statement of style.

Designed to resemble concrete, our Limestone and Sand Stone finishes are developed with actual aggregate, which is bonded to cast aluminum and sanded for unmatched beauty and durability.

Our spun copper fixtures and cast brass fixtures are natural and will patina over time; or you can choose them pre-aged with oxidized finishes like Antique Copper, Verde Copper or Oiled Brass. And for a natural finish that never loses its shine, we offer Stainless Steel.

Don’t see your finish here? Don’t worry. We have hundreds more standard colors … plus color matching. Contact your HADCO representative for more details.

ULTEM® is a registered trademark of General Electric Company.
Steel

SS = Stainless Steel
A = Black
B = White
G = Verde
H = Bronze
N = Natural Brass (Brass)
G = Verde (Aluminum)
H = Bronze (Composite)
OM = Old Marble (Aluminum)
X = Silver
U = Sienna
T = Speckled Stone
S = Sand Stone

Aluminum

K = Garden Green
L = Limestone
OM = Old Marble

Composite

OM = Old Marble
LED LIGHTING
What is an LED?

Simply put, an LED, or Light Emitting Diode, is a diode that is chip-mounted in a reflector cup and held in place by a milled steel frame connected to a pair of electrical wires. When current flows across the junction of the two different materials, light is produced from within the solid crystal chip. HADCO uses bright white LEDs as standard, which are developed by coating a blue LED with a phosphor, and thereby generating a white color.
LED TECHNOLOGY

LED: Hadco’s Leading Edge Development

Why use LED?

- LEDs provide a longevity that is up to 20 times that of standard incandescent lamps, translating to low maintenance.
- LEDs are solid-state devices, meaning no moving parts, glass or filaments to break.
- LEDs are small in size and resistant to vibration or shock.
- LEDs contain no mercury and are environmentally friendly.
- LEDs are more efficient, using up to 90% less energy than other light sources based on watts.
LED BULLYTE

**B4**

- 120 Volt
- 17 total watts consumed
- Twelve (12) Seoul semiconductor
- Integral voltage regulator, suitable for standard remote transformers
- 1/2” NPS fitter

**HOUSING** — Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

**FINISH** — Black, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.

**LENS** — Clear flat tempered glass included with shroud.

**LED** — Factory sealed Seoul semiconductor Z-power P4 LED’s. cool white - 100 lumens typical, warm white - 60 lumens typical.

**ELECTRICAL** — 17 watts consumed (total fixture consumption). SmartSelect™ electronic driver 120-277 Vac 50-60Hz auto sensing. Integral over-voltage, over-current and short circuit protection (auto-recovery).

**OPTICS** — Narrow (10°), Medium (30°) or Wide (50°) optics.

**IP RATING** — IP66 Dust tight and sealed against direct jets of water.

ETL and cETL listed.

---

**BL7D1**

- 12 Volt
- 1 total watt
- One (1) Luxeon® K2 - 75 lumens
- 1/2” NPS fitter

**HOUSING** — Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** — Fully-rotatable, gasketed, cast aluminum.

**FINISH** — Black, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.

**LENS** — Frosted - 5,000K or Amber - 3,000K.

**LED** — Luxeon® K2 High Output LED, powered 350mA DC to operate for 50,000 hours.

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
BLN5D(W)*4/BLW5D(W)*4
LED BULLYTE

BLN5D4-A Black (Narrow)
BLN5D4-H Bronze (Narrow)
BLW5D4-A Black (Flood)
BLW5D4-H Bronze (Flood)

- 12 Volt, 12.4 total watts
- Four (4) Luxeon® K2 High Output LEDs
- Integral voltage regulator; suitable for standard remote transformers
- 1/2” NPS fitter

HOUSING – Die-cast marine grade alloy aluminum with fully adjustable swivel arm with vibration-proof locking teeth.

SHROUD – Fully rotatable, double gasketed, die-cast marine grade alloy aluminum.

FINISH – Black or bronze thermoset powdercoat.

LENS – Clear tempered glass (5000k), Amber Lens (3000k), affixed at 10° angle for natural cleaning.

LED – Luxeon® K2 High Output, powered 700mA DC to operate for 50,000 hours.

ELECTRICAL – Input voltage range (VAC): 10.8-17.5, regulated to 12V DC. Integral surge protector.

WIRING – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

IP RATING – IP66 Dust tight and sealed against direct jets of water.

BUL_1D4 LED BULLYTE

- 12 Volts
- 12.4 total watts
- Three (3) Luxeon® K2 High Output LEDs
- Integral voltage regulator; suitable for standard remote transformers
- 1/2” NPS fitter
- ETL and cETL listed.

HOUSING – One-piece injection molded ULTEM® High Performance Polymer with fully-adjustable swivel arm with vibration-proof locking teeth.

FINISH – Color impregnated material in black, hand-rubbed verde antiqued over black, or bronze.

LENS – Frosted tempered glass.

LED – Luxeon® K2 High Output LED, powered 700mA DC to operate for 50,000 hours.

ELECTRICAL – Input voltage range (VAC): 10.8-17.5, regulated to 12V DC. Integral surge protector.

WIRING – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

TDL4D3 LED PATHLIGHT

TDL4D3-A Black
TDL4D3-G Verde
TDL4D3-H Bronze

- 12 Volt, 9.3 total watts
- Three (3) Type III Luxeon® High Output LEDs
- Integral Voltage Regulator; suitable for standard remote transformers
- 1/2” NPS fitter

HOUSING – Cast aluminum with stainless steel fasteners.

FINISH – Black or bronze thermoset powdercoat, verde hand-rubbed over black powdercoat.

LENS – Frosted tempered glass sprinkler shield with molded silicone gaskets.

LED – Type III Luxeon® High Output LED, powered 700mA DC to operate for 50,000 hours.

ELECTRICAL – Input voltage range (VAC): 10.8-17.5, regulated to 12V DC. Integral surge protector.

WIRING – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

IP RATING – IP66 Dust tight and sealed against direct jets of water.

Recommended Spacing - TDL4D3-8” Horizontal footcandles

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*(W) when ordering optional Amber Lens.
i2.5 LED INGROUND

I25- Black     I25-H Bronze

• 120 Volt
• 17 total watts consumed
• Twelve (12) Seoul semiconductor
• Integral voltage regulator, suitable for standard remote transformers
• 1/2” NPS fitter


LENS – Clear convex, tempered borosilicate for high-impact resistance. 3,000 lb live-load rated, drive-over.

LED – Factory sealed Seoul semiconductor Z-power P4 LED’s. cool white - 100 lumens typical, warm white - 60 lumens typical

ELECTRICAL – 17 watts consumed (total fixture consumption). SmartSelect™ electronic driver 120-277 Vac 50-60Hz auto sensing, integral over-voltage, over-current and short circuit protection (auto-recovery).

AIMING – 15° either side of vertical and full 360° rotation. Angle degree marks for precise vertical aiming with tool-less LOC-AIM®.

IP RATING – IP66/68 to 1M.

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*(W) when ordering optional Amber Lens
ML4D3 LED PATHLIGHT
ML4D3-A Black  ML4D3-G Verde
ML4D3-H Bronze
- 12 Volt  • 9.3 total watts
- Three (3) Type III Luxeon® High Output LEDs
- Integral Voltage Regulator, suitable for standard remote transformers
- 1/2” NPS fitter
HOUSING – Cast aluminum with stainless steel fasteners.
FINISH – Black or bronze thermosteel powdercoat, verde hand-rubbed over black powdercoat.
LENS – Frosted tempered glass sprinkler shield with molded silicone gaskets.
LED – Type III Luxeon® High Output LED, powered 700mA DC to operate for 50,000 hours.
ELECTRICAL – Input voltage range (VAC): 10.8-17.5, regulated to 12V DC. Integral surge protector.
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hook-up to the supply cable.
IP RATING – IP66 Dust tight and sealed against direct jets of water.

Recommended Spacing - ML4D3-8’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 9.3w LED</td>
<td>5.0</td>
<td>1.0</td>
<td>0.5</td>
<td>0.2</td>
<td>0.1</td>
<td>0.05</td>
<td>0.01</td>
<td>0.0</td>
</tr>
</tbody>
</table>

AL4D3 LED PATHLIGHT
AL4D3-A Black  AL4D3-G Verde
AL4D3-H Bronze
- 12 Volt  • 9.3 total watts
- Three (3) Type III Luxeon® High Output LEDs
- Integral Voltage Regulator, suitable for standard remote transformers
- 1/2” NPS fitter
HOUSING – Cast aluminum with stainless steel fasteners.
FINISH – Black or bronze thermosteel powdercoat, verde hand-rubbed over black powdercoat.
LENS – Frosted tempered glass sprinkler shield with molded silicone gaskets.
LED – Type III Luxeon® High Output LED, powered 700mA DC to operate for 50,000 hours.
ELECTRICAL – Input voltage range (VAC): 10.8-17.5, regulated to 12V DC. Integral surge protector.
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hook-up to the supply cable.
IP RATING – IP66 Dust tight and sealed against direct jets of water.

Recommended Spacing - AL4D3-8’

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<tr>
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<th>3’</th>
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<th>6’</th>
<th>7’</th>
<th>8’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 9.3w LED</td>
<td>1.8</td>
<td>1.0</td>
<td>05</td>
<td>0.2</td>
<td>0.1</td>
<td>0.05</td>
<td>0.01</td>
<td>0.0</td>
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</tbody>
</table>

ULW5D(W*)4 LED UNDERWATER
ULW5D4-H Bronze
- 12 Volt  • 12.4 total watts
- Four (4) Luxeon® K2 High Output LEDs
- Integral voltage regulator, suitable for standard remote transformers
LENS RING – Single-piece injection molded ULTEM® High Performance Polymer with gasketed lens with polycarbonate lens protector.
FINISH – Color impregnated bronze.
LENS – Clear tempered glass (5000k), Amber Lens (300k), Convex lens is clear, high-temperature tempered glass furnished with silicone O-ring for watertight seal.
LED – Luxeon® K2 High Output LED, powered 700mA DC to operate for 50,000 hours.
ELECTRICAL – Input voltage range (VAC): 10.8-17.5, regulated to 12V DC. Integral surge protector.
WIRING – Pre-wired with a 10-ft. STWA cord for hardwiring to the low voltage supply cable.
IP RATING – IP66/68 to 1M.

*(W) when ordering optional Amber Lens
**Ordering Guide**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Finish</th>
<th>Sym Optics</th>
<th>Lamping</th>
<th>Warm Amber Lens</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSC2</td>
<td>ALUMINUM</td>
<td>(A) Black</td>
<td>K5 or L5</td>
<td>D3 (3 1w LEDs)</td>
<td>(Specify) (W)</td>
<td>E</td>
</tr>
<tr>
<td>RSF2</td>
<td>POLYCARBONATE</td>
<td>(B) White</td>
<td></td>
<td>D5 (5 1w LEDs)</td>
<td>(Specify) (W)</td>
<td>E</td>
</tr>
<tr>
<td>RSS2</td>
<td>POLYCARBONATE</td>
<td>(H) Bronze</td>
<td></td>
<td></td>
<td>(Specify) (W)</td>
<td>E</td>
</tr>
<tr>
<td>RSV2</td>
<td>ALUMINUM</td>
<td>(N) Natural Cast Bronze</td>
<td></td>
<td></td>
<td>(Specify) (W)</td>
<td>E</td>
</tr>
<tr>
<td>RSC2-AHO*</td>
<td>Black</td>
<td>(Specify)</td>
<td></td>
<td></td>
<td>Housing Only for Pre-Shipment</td>
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</tr>
<tr>
<td>RSC2-BHO*</td>
<td>White</td>
<td>(A.H)</td>
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<td></td>
<td>LED Housing Only for Pre-Shipment</td>
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<tr>
<td>RSC2-HHO*</td>
<td>Bronze</td>
<td>(A.H)</td>
<td></td>
<td></td>
<td>LED Housing Only for Pre-Shipment</td>
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</tr>
<tr>
<td>RSC2-NHO*</td>
<td>Natural Cast Bronze</td>
<td>(Specify)</td>
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<td></td>
<td>LED Housing Only for Pre-Shipment</td>
<td>E</td>
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</tbody>
</table>

*When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.

**Ordering Guide**

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>MAKM</td>
<td>Masonry Construction Mounting Kit</td>
</tr>
<tr>
<td>MAKNS</td>
<td>New Stud Wall Construction Mounting Kit</td>
</tr>
<tr>
<td>MAK8</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
</tr>
</tbody>
</table>

Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.

**PHOTOMETRIC INFORMATION**

<table>
<thead>
<tr>
<th>5-1w LEDs</th>
<th>2 Foot Mounting Height</th>
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<tbody>
<tr>
<td>2.00</td>
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<td>0.50</td>
<td>0.02</td>
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<tr>
<td>0.20</td>
<td>0.00</td>
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<table>
<thead>
<tr>
<th>3-1w LEDs</th>
<th>2 Foot Mounting Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50</td>
<td>1.25</td>
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<tr>
<td>1.90</td>
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<tr>
<td>0.70</td>
<td>0.15</td>
</tr>
<tr>
<td>0.30</td>
<td>0.05</td>
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</tbody>
</table>

**ETL, cETL Listed.**

**HOUSING** – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**TRIM RING** – Die-cast aluminum trim contains less than 0.3% copper to resist corrosion. Cast bronze fixture has polycarbonate, color-impregnated, dark bronze finish (RSC2 and RSV2 only).

**FINISH** – Aluminum parts have zinc-rich primer and thermoset powdercoat for durability. Cast bronze has natural finish (RSC2 and RSV2 only).

**CAST LOUVER FACEPLATE** – Die-cast copper-free aluminum with 45° cutoff, with frosted tempered glass. Cast bronze louver is natural cast bronze with frosted tempered glass (RSC2 and RSV2 only). Amber Lens option (3000k)

**OPAL FACEPLATE** – Opal UV stabilized injection molded polycarbonate with frosted glass silconed on inside for durability.

**LOUVER SCREEN FACEPLATE** – Clear UV stabilized injection molded polycarbonate with 45° louvered screen insert.

**LED** – Type 1 Luxeon® high-output LEDs powered at 350mA DC to operate for 50,000 hours.

**REFLECTOR** – Specular aluminum formed reflector.

**ELECTRICAL** – Electronic Driver 120 volt AC to 12 volt regulated DC, integral short circuit protection.

**WIRING** – Supply wires connect directly to the quick connect on the integral power supply.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

**IP RATING** – IP66 Dust tight and sealed against direct jets of water.

Bullytes, floodlytes, wall washers, downlytes … the right size, the right combination, the right finish.

For every effect you can imagine, the keys are here to unlock the beauty of your landscape with light.
EL1 BRASS

EL1-N Natural Brass

• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
• 1/2” NPS fitter

HOUSING – Die-cast brass with fully-adjustable brass yoke-mounted arm and brass screws. Includes 30° flood aluminum reflector.

FINISH – Natural brass finish.

LENS – Clear tempered glass.

SOCKET – Bi-pin type (G4).

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

BL711 ALUMINUM

BL711-A Black  BL711-G Verde
BL711-H Bronze  BL711-T Speckled Stone
BL711-U Sienna

• 12 Volt
• 35 watt maximum (MR11 Lamp)
• 20 watt maximum (T3)
• 1/2” NPS fitter

HOUSING – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

SHROUD – Gasketed, cast aluminum.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze, speckled stone or sienna thermoset powdercoat.

LENS – Clear tempered glass.

SOCKET – Bi-pin type (G4).

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL Listed 35w maximum.
cETL Listed 20w maximum.

<table>
<thead>
<tr>
<th>catalog no.</th>
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</thead>
<tbody>
<tr>
<td>ML7</td>
<td>Louver</td>
</tr>
</tbody>
</table>
BL756 ALUMINUM
BL756-A Black  BL756-G Verde
BL756-H Bronze  BL756-T Speckled Stone
BL756-U Sienna

• 12 Volt
• 27 watt maximum
• 1156 Lamp (included)
• 1/2” NPS fitter
HOUSING – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.
SHROUD – Gasketed, cast aluminum.
FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze, speckled stone or sienna thermoset powdercoats.
LENS – Clear tempered glass.
SOCKET – Single contact bayonet (S-8).
WIRING – Prewired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

BL616 ALUMINUM
BL616-A Black  BL616-G Verde
BL616-H Bronze  BL616-T Speckled Stone
BL616-U Sienna

• 12 Volt
• 50 watt maximum
• MR16 Lamp
• 1/2” NPS fitter
HOUSING – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.
SHROUD – Gasketed, cast aluminum.
FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze, speckled stone or sienna thermoset powdercoats.
LENS – Clear tempered glass.
SOCKET – Bi-pin type (GU5.3).
WIRING – Prewired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL Listed 50w maximum.
cETL Listed 35w maximum.
**BUllYTES**

**BL5016 ALUMINUM**

- BL5016-A Black
- BL5016-H Bronze
- BL5016-U Sienna

- 12 Volt
- 50 watt maximum
- MR16 Lamp
- 1/2” NPS fitter

**HOUSING** – Die-cast marine grade aluminum alloy with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – Fully-rotatable, double gasketed, die-cast marine grade aluminum alloy.

**FINISH** – Black, hand-rubbed verde antiqued over black, bronze, speckled stone or sienna thermoset powdercoat.

**LENS** – Clear tempered glass, affixed at 10° angle for natural cleaning.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

**ETL, cETL Listed.**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ICG16</td>
<td>Louver</td>
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<tr>
<td>BL16</td>
<td>Ice Blue Lens</td>
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<tr>
<td>ISL16</td>
<td>Spread Lens</td>
</tr>
<tr>
<td>IAS16</td>
<td>Linear Spread Lens</td>
</tr>
</tbody>
</table>

**BUL16 COMPOSITE**

- BUL16-A Black
- BUL16-H Bronze
- BUL16-G Verde

- 12 Volt
- Clear Tempered Lens
- 50 watt maximum
- MR16 Lamp
- 1/2” NPS fitter

**HOUSING** – One-piece injection molded ULTEM® High Performance Polymer with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – Fully-rotatable, gasketed, ULTEM® High Performance Polymer composite.

**FINISH** – Color impregnated material in black, bronze, or hand-rubbed verde antiqued over black.

**LENS** – Clear tempered glass affixed at 10° angle for natural cleaning.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

**ETL, cETL Listed.**

<table>
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<tr>
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<td>IAS16</td>
<td>Linear Spread Lens</td>
</tr>
</tbody>
</table>
**BL16 BRASS**

- **BL16-N Natural Brass**
- **BL16-OB Oiled Brass**

- 12 Volt
- 50 watt maximum
- MR16 Lamp
- Long Shroud
- 1/2” NPS fitter

**HOUSING** – Die-cast brass with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – Fully-rotatable, gasketed, die-cast brass.

**FINISH** – Natural brass or oiled brass.

- Oiled base finish is chemically treated and appearance will vary between production runs. Finish will continue to patina over time.

**LENS** – Clear tempered glass affixed at 10° angle for natural cleaning.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**CUL16 COPPER**

- **CUL16 Copper**

- 12 Volt
- 35 watt maximum
- MR16 Lamp (20 watt included)
- 1/2” NPS fitter

**MATERIAL** – Machined solid copper with fully-adjustable natural brass swivel arm and brass fastener.

**FINISH** – Natural copper will age to a fine patina.

**LENS** – Clear tempered glass.

**SOCKET** – Bi-pin type (G4)

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL Listed 35w maximum.

cETL Listed 20w maximum.

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<table>
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<tbody>
<tr>
<td>ICG16</td>
<td>Louver</td>
<td>ISL16</td>
<td>Spread Lens</td>
</tr>
<tr>
<td>IBL16</td>
<td>Ice Blue Lens</td>
<td>IAS16</td>
<td>Linear Spread Lens</td>
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<table>
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<td>Louver</td>
<td>MLS1</td>
<td>Spread Lens</td>
</tr>
<tr>
<td>MLB1</td>
<td>Ice Blue Lens</td>
<td>MLS2</td>
<td>Linear Spread Lens</td>
</tr>
</tbody>
</table>
GABL16 COPPER

GABL16-AC Hand-Crafted Copper

- 12 Volt
- 35 watt maximum
- MR16 Lamp
- 1/2” NPS fitter

HOUSING – Hand-formed solid copper. Die-cast brass, fully-adjustable swivel arm with vibration-proof locking teeth and brass fastener.

FINISH – Natural copper with hand-applied oxide coating will age naturally to a fine patina.

LENS – Clear tempered glass.

SOCKET – Bi-pin type (GU5.3).

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL Listed 35w maximum.

cETL Listed 20w maximum.

BL36 ALUMINUM

BL36-A Black
BL36-H Bronze
BL36-U Sienna

- 12 Volt
- 50 watt maximum
- PAR36 Lamp
- 1/2” NPS fitter

HOUSING – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

SHROUD – Fully-rotatable, die-cast aluminum.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze, speckled stone or sienna thermoset powdercoat.

SOCKET – Double screw terminal.

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.
**BPL36 COMPOSITE**

- **BPL36-A** Black
- **BPL36-H** Bronze
- **BPL36-G** Verde

- 12 Volt
- 50 watt maximum
- PAR36 Lamp
- 1/2” NPS fitter

**HOUSING** — One-piece injection molded polyester resin with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** — Fully-rotatable, injection molded polyester resin.

**FINISH** — Color impregnated material in black, bronze, or hand-rubbed verde antiqued over black.

**SOCKET** — Double screw terminal.

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**BL1 ALUMINUM (LONG SHROUD)**

- **BL1-AL** Black
- **BL1-HL** Bronze
- **BL1-UL** Sienna
- **BL1-GL** Verde
- **BL1-TL** Speckled Stone

- 12 Volt
- 75 watt maximum
- MR16 Lamp
- 1/2” NPS fitter

**HOUSING** — Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** — Fully-rotatable, gasketed, die-cast aluminum.

**FINISH** — Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze, speckled stone or sienna thermoset powdercoat.

**LENS** — Clear tempered glass.

**SOCKET** — Bi-pin type (GU5.3).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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<td>ISL16</td>
<td>Spread Lens</td>
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<tr>
<td>IBL16</td>
<td>Ice Blue Lens</td>
<td>IA516</td>
<td>Linear Spread Lens</td>
</tr>
</tbody>
</table>

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**BL1 ALUMINUM (SHORT SHROUD)**

- **BL1-AS** Black
- **BL1-HS** Bronze
- **BL1-US** Sienna

  - 12 Volt
  - 75 watt maximum
  - MR16 Lamp
  - 1/2” NPS fitter

**HOUSING** – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – Fully-rotatable, gasketed, cast aluminum.

**FINISH** – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze, speckled stone or sienna thermoset powdercoat.

**LENS** – Clear tempered glass.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**BUL1 COMPOSITE (LONG SHROUD)**

- **BUL1-AL** Black
- **BUL1-HL** Bronze

  - 12 Volt
  - Clear Tempered Lens
  - 75 watt maximum
  - MR16 Lamp
  - 1/2” NPS fitter

**HOUSING** – One-piece injection molded ULTEM® High Performance Polymer composite with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – Fully-rotatable, gasketed, ULTEM® High Performance Polymer composite.

**FINISH** – Color impregnated material in black, bronze, or hand-rubbed verde antiqued over black.

**LENS** – Clear tempered glass.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.
**BUL1 COMPOSITE (SHORT SHROUD)**

- **BUL1-AS Black**
- **BUL1-GS Verde**
- 12 Volt
- Clear Tempered Lens
- 75 watt maximum
- MR16 Lamp
- 1/2” NPS fitter

**HOUSING** — One-piece injection molded ULTEM® High Performance Polymer composite with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** — Fully-rotatable, gasketed, ULTEM® High Performance Polymer composite.

**FINISH** — Color impregnated material in black, bronze, or hand-rubbed verde antiqued over black.

**LENS** — Clear tempered glass.

**SOCKET** — Bi-pin type (GU5.3).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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<tr>
<td>IBU16</td>
<td>Ice Blue Lens</td>
<td>IAS16</td>
<td>Linear Spread Lens</td>
</tr>
</tbody>
</table>

**BL1 BRASS (LONG SHROUD)**

- **BL1-NL Natural Brass**
- **BL1-OBL Oiled Brass**
- 12 Volt
- 75 watt maximum
- MR16 Lamp
- 1/2” NPS fitter

**HOUSING** — Die-cast brass with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** — Fully-rotatable, gasketed, die-cast brass.

**FINISH** — Natural brass or oiled brass finish. Oiled base finish is chemically treated and appearance will vary between production runs. Finish will continue to patina over time.

**LENS** — Clear tempered glass.

**SOCKET** — Bi-pin type (GU5.3).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

<table>
<thead>
<tr>
<th>catalog no.</th>
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<tbody>
<tr>
<td>ICG16</td>
<td>Louver</td>
<td>ISL16</td>
<td>Spread Lens</td>
</tr>
<tr>
<td>IBU16 Ice Blue Lens</td>
<td>IAS16</td>
<td>Linear Spread Lens</td>
<td></td>
</tr>
</tbody>
</table>
**WAML14(F)**  ALUMINUM

**WAML14-A**  Black  **WAML14-B**  White
**WAML14-G**  Verde  **WAML14-H**  Bronze

- 12 Volt
- 50 watt maximum
- T4 Halogen lamp (included)

**HOUSING**  –  Die-cast aluminum housing with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD**  –  Gasketed, cast aluminum.

**FINISH**  –  Black, white, hand-rubbed verde antiqued over black thermoset powdercoat or bronze thermoset powdercoat.

**LENS**  –  Clear or Frosted tempered glass. All lenses fully gasketed.

**SOCKET**  –  Bi-pin type (GY6.35).

**WIRING**  –  Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

* *(F) when ordering optional Frosted Lens

**WBML14(F)**  ALUMINUM

**WBML14-A**  Black  **WBML14-B**  White
**WBML14-G**  Verde  **WBML14-H**  Bronze

- 12 Volt
- 35 watt maximum
- T4 Halogen lamp (included)

**HOUSING**  –  Die-cast aluminum housing with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD**  –  Gasketed, cast aluminum.

**FINISH**  –  Black, white, hand-rubbed verde antiqued over black thermoset powdercoat or bronze thermoset powdercoat.

**LENS**  –  Clear or Frosted tempered glass. All lenses fully gasketed.

**SOCKET**  –  Bi-pin type (GY6.35).

**WIRING**  –  Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

* *(F) when ordering optional Frosted Lens

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**Catalog no.**

| MW12 | Cutoff Louver |

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**MW12**  Cutoff Louver  **MW11**  Barn Doors

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**Catalog no.**

| MW12 | Cutoff Louver |

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**MW11**  Barn Doors

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* *(F) when ordering optional Frosted Lens
**CAL1** ALUMINUM

**CAL1-G** Verde

- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2" NPS fitter

**HOUSING** – Cast aluminum construction with non-ferrous fasteners.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat.

**LENS** – Clear polycarbonate shield.

**SOCKET** – Single contact bayonet (S-8).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**AAL1** ALUMINUM

**AAL1-A** Black

- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2" NPS fitter

**HOUSING** – Cast aluminum construction with non-ferrous fasteners.

**FINISH** – Black thermoset powdercoat or hand-rubbed verde antiqued over black thermoset powdercoat.

**LENS** – Clear polycarbonate shield.

**SOCKET** – Single contact bayonet (S-8).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.
**AUL1 COMPOSITE**

AUL1-A Black  
AUL1-G Verde  

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter  

**HOUSING** – Injection molded ULTEM® High Performance Polymer composite with adjustable swivel arm with vibration-proof locking teeth.  

**FINISH** – Color impregnated black or hand-rubbed verde antiqued over black.  

**LENS** – Clear polycarbonate shield.  

**SOCKET** – Bi-pin type (G4).  

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.  

ETL Listed 20w maximum.  
cETL Listed 10w maximum.

---

**GAWL1 COPPER**

GAWL1-AC Hand-Crafted Copper  

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter  

**HOUSING** – Hand-formed solid copper, with hand-applied oxide coating.  

**FINISH** – Natural copper will age naturally to a fine patina.  

**LENS** – Clear polycarbonate shield.  

**SOCKET** – Bi-pin type (G4).  

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.  

ETL, cETL Listed.
GAHL1 COPPER

GAHL1-AC Hand-Crafted Copper

• 12 Volt
• 27 watt maximum
• 1156 Lamp (included)

HOUSING – Hand-formed solid copper with hand-applied oxide coating. 12” hanging kit included.

FINISH – Natural copper will age naturally to a fine patina.

SOCKET – Single contact bayonet (S-8).

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the low voltage supply cable.

ETL, cETL Listed.

DL1 ALUMINUM

DL1-A Black  DL1-G Verde

• 12 Volt
• 27 watt maximum
• 1156 Lamp (included)

HOUSING – Cast aluminum top cap with aluminum body and 5-ft. stainless suspension cable.

FINISH – Black thermoset powdercoat or hand-rubbed verde antiqued over black thermoset powdercoat.

SOCKET – Single contact bayonet (S-8).

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the low voltage supply cable.

UL, cUL Listed.
**DRL1 ALUMINUM**

DRL1-A Black  
DRL1-G Verde  
- 12 Volt  
- 35 watt maximum  
- M16 Lamp

**HOUSING** – Cast aluminum top cap with aluminum body and 5-ft. stainless suspension cable.

**FINISH** – Black thermoset powdercoat or hand-rubbed verde antiqued over black thermoset powdercoat.

**LENS** – Clear tempered glass.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL Listed 35w maximum.  
cETL Listed 20w maximum.

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**DSL2 ALUMINUM**

DSL2-A Black  
DSL2-B White  
- 12 Volt  
- 18 watt maximum  
- 11W Lamp (included)

**HOUSING** – Machined aluminum top cap and cast aluminum body with adjustable yoke.

**FINISH** – Black or white thermoset powdercoat.

**LENS** – Frosted tempered glass lens.

**SOCKET** – Single contact bayonet base (S-8).

**WIRING** – Pre-wired with 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**DRL2 ALUMINUM**

DRL2-A Black  
DRL2-G Verde  
- 12 Volt  
- 35 watt maximum  
- M16 Lamp

**HOUSING** – Cast aluminum top cap with aluminum body and adjustable mounting yoke.

**FINISH** – Black thermoset powdercoat or hand-rubbed verde antiqued over black thermoset powdercoat.

**LENS** – Clear tempered glass.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL Listed 35w maximum.  
cETL Listed 20w maximum.
EVL1 BRASS
EVL1-N Natural Brass

- 12 Volt
- 10 watt maximum
- T3 Lamp (included)

HOUSING – Die-cast brass body with fully-adjustable yoke, brass canopy with brass stem and screws. Includes 30° flood aluminum reflector.

FINISH – Natural brass.

LENS – Clear tempered glass.

SOCKET – Bi-pin type (G4).

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

LLL COPPER
LLL6-AC LLL12-AC
LLL24-AC

- 12 Volt
- 10 watt maximum
- Wedge base Xenon lamp (included)

HOUSING – Solid copper square extrusion with solid copper ends.

FINISH – Natural copper will patina with age.

SOCKET – Wedge base hinged for relamping (LLL24 has two (2) sockets each).

REFLECTOR – Stainless steel.

MOUNTING – Two (2) stainless #8 wood screws (supplied) via key slots.

WIRING – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.
LOW VOLTAGE
INGROUND LIGHTING
Inground lighting provides a low profile light source, creating a dramatic effect that brings the subject alive.

Our inground products do exactly that, and do it well. Designed to blend into a variety of settings and terrain, our ingrounds are available with your choice of trim rings, rock guards and accessories. Properly installed, they’ll gild your landscape for years.
**INGROUNDS**

**IL116/IL136 COMPOSITE TRIM RING**

**CAST BRONZE TRIM RING**

**CAST BRONZE ROCK GUARD**

**STAINLESS STEEL BRUSED MATTE FINISH TRIM RING**

**HOUSING** — Single-piece compression molded, fiberglass reinforced polyester composite housing.

**TRIM RING** — Compression molded polyester; or die-cast stainless steel; or natural cast bronze.

**ROCK GUARD** — Directional for glare control. Compression molded polyester or natural cast bronze.

**LENS** — Clear convex, tempered soda-lime glass for high impact resistance. 2,200-pound live-load rated, standard walk-over.

**SOCKET** — MR16 bi-pin type (GU5.3), PAR36/AR111: double screw terminal base

**ELECTRICAL** — Low voltage fixtures supplied with 3-ft. of 18-2 direct burial cable and low voltage quick connector.

**AIMING** — MR16 and PAR36 lamps have 15° either side of vertical and 358° rotation.

**ADA COMPLIANT** — Compliant when used in concrete and flush mounted with CP2 or CPS2.

ETL, cETL Listed.
**ACCESSORIES**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Finish</th>
<th>Max Wattage</th>
<th>Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>IL116-H</td>
<td>Composite Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>75w</td>
<td>MR16</td>
</tr>
<tr>
<td>IL116G-H</td>
<td>Composite Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>75w</td>
<td>MR16</td>
</tr>
<tr>
<td>IL116-N</td>
<td>Composite Inground with Cast Bronze Trim Ring</td>
<td>Natural Cast Bronze</td>
<td>75w</td>
<td>MR16</td>
</tr>
<tr>
<td>IL116G-N</td>
<td>Composite Inground with Cast Bronze Rock Guard</td>
<td>Natural Cast Bronze</td>
<td>75w</td>
<td>MR16</td>
</tr>
<tr>
<td>IL116-SS</td>
<td>Composite Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>75w</td>
<td>MR16</td>
</tr>
<tr>
<td>IL136-H</td>
<td>Composite Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>75w</td>
<td>PAR36 / AR111</td>
</tr>
<tr>
<td>IL136G-H</td>
<td>Composite Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>75w</td>
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<td>Composite Inground with Cast Bronze Trim Ring</td>
<td>Natural Cast Bronze</td>
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<td>Natural Cast Bronze</td>
<td>75w</td>
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<td>Composite Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>75w</td>
<td>PAR36 / AR111</td>
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**LOW VOLTAGE INGROUND PRODUCT SELECTION GUIDE**
**IUL516 COMPOSITE**

IUL516-H Bronze

- 12 Volt
- 50 watt maximum
- MR16 Lamp


**FINISH** – Color impregnated bronze composite.

**LENS** – Convex lens is clear; high temperature tempered glass furnished with silicone O-ring for watertight seal.

**SOCKET** – Bi-pin type (GU5.3).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hook-up to the supply cable.

ETL, cETL Listed.

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<td>ILS16</td>
<td>Spread Lens</td>
</tr>
<tr>
<td>BLS16</td>
<td>Ice Blue Lens</td>
<td>IAS16</td>
<td>Linear Spread Lens</td>
</tr>
<tr>
<td>CPS1</td>
<td>Concrete Pour Kit</td>
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<td></td>
</tr>
</tbody>
</table>

**IL336 COMPOSITE**

IL336-A Black

- 12 Volt
- 50 watt maximum
- PAR36 Lamp

**HOUSING** – Single-piece PVC tube. Straight cut end allows flush ground mounting, and an accessory lens guard (IL3H) or rock guard (IG3H or IG30H) may be ordered separately, but is not required. Angled cut end requires the top 3” installed above ground for maximum vertical spot aiming with shielding being provided on three (3) sides.

**LAMP HOLDER (PATENTED)** – Durable silicone rubber lamp holder has integral fins to allow the height and angle of the lamp to be adjusted without any mechanical moving parts. Fixture offers 360° lamp rotation and up to 45° off vertical aiming adjustability, restricted only by the cutoff of the housing.

**FINISH** – Black silicone lampholder with black PVC sleeve.

**LENS** – Optional lens available, see below.

**SOCKET** – Double screw terminal.

**WIRING** – 3-ft. of 18-2 low voltage cable with a low voltage quick connector for easy hook-up to the low voltage supply cable.

ETL, cETL Listed.

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<tbody>
<tr>
<td>IG3H</td>
<td>Rockguard with Lens</td>
<td>IG30H</td>
<td>Rockguard without Lens</td>
</tr>
<tr>
<td>ISL16</td>
<td>Lens Guard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Above accessories to be used with straight cut end only.
Installation of inground fixtures requires special consideration. Proper grading, drainage material and tightly securing the lens and gasket are procedures that are key to a successful inground installation. The following are basic steps in installing inground fixtures in either concrete (using the concrete pour accessory) or soil. For greater detailed instructions, refer to the installation sheet enclosed with each fixture.

**Concrete Installation** *(IL116 Shown)*

*NOTE: To ensure proper drainage, prepare gravel foundation. Make certain that the concrete level, when poured, will be flush with the top of the concrete pour accessory.*

1. Remove trim ring and lens and install specified lamp. Replace trim ring and lens.
2. Position the fixture housing into the concrete pour accessory, making sure that the underside of the housing flange rests on top of the set screws. Tighten set screws on side of accessory to lock the housing into place (do not over-tighten). Secure assembly to the final location with re-bar or other anchoring device.
3. Excavate soil where the fixture is to be installed.
4. Place assembly into excavated opening. Be sure there is a minimum of 3” of drainage material (sand or gravel only) covering the bottom of the hole.
5. Fill area with a minimum of 3” of drainage material. Be sure not to fill area flush with top of frame and assembly. This is to be filled with concrete.
6. Connect low voltage fixture wire to low voltage cable running to remote transformer, using silicone wire nuts or quick connector (supplied).
7. Pour concrete. Remember that fixture position cannot be altered after the concrete sets.
8. Turn power on at transformer.
NOTE: Do not place fixture in a below grade location as the fixture will collect dirt and debris, and possibly become submerged in extremely wet conditions. Do not place plantings too close to the fixture as the foliage may grow over the luminaire, blocking the light. Do not allow mulch to touch inground fixture in any way as this may cause the fixture to overheat and fail.

1. Excavate soil for fixture placement and conduit runs, making sure the fixture will be elevated and the grade sloped down from the fixture. Be certain to allow a minimum of 3” of drainage material (sand or gravel only) under and around the housing.

2. Remove trim ring and lens and install specified lamp. Replace trim ring.

3. After drainage material is installed in the bottom, place fixture housing into hole, back-filling a minimum of 3” of drainage material (sand or gravel only) around the side of the housing. Be certain that the underside of housing flange rests on top of grade level.

4. Connect low voltage fixture wire to low voltage cable running to remote transformer, using silicone wire nuts or quick connector (supplied).

5. Turn power on at transformer.

Order in which to tighten screws.

Drainage Gravel (3” minimum)
LOW VOLTAGE
STEP AND DECK LIGHTING

From decorative to utilitarian and everything in between, our step and deck fixtures give you the power to create outdoor living spaces people will treasure.

Broaden the boundaries … and make the outdoors outstanding.
GADL1 COPPER
GADL1-AC Hand-Crafted Copper
• 12 Volt
• 10 watt maximum
• 10 watt Xenon lamp (included)
HOUSING = Hand-formed solid copper.
FINISH = Natural copper with hand-applied oxide coating will age naturally to a fine patina.
SOCKET = Wedge base.
WIRING = Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

GADL2 COPPER
GADL2-AC Hand-Crafted Copper
• 12 Volt
• 12 watt maximum
• 10 watt Xenon lamp (included)
HOUSING = Hammered solid copper with copper back plate.
FINISH = Natural copper with hand-applied oxide coating for pre-aged appearance. Will age naturally to a fine patina.
SOCKET = Wedge base.
WIRING = Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

CUL20 COPPER
CUL20 Copper
• 12 Volt
• 12 watt maximum
• 10 watt Xenon lamp (included)
HOUSING = Spun solid copper.
FINISH = Natural copper will age naturally to a fine patina. Reflective white powder coat on underside of roof.
SOCKET = Wedge base.
WIRING = Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.
DUL1 COMPOSITE
DUL1-A Black
DUL1-G Verde
DUL1-H Bronze
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
HOUSING = Injection fiberglass reinforced molded ULTEM® High Performance Polymer housing with stainless steel set screws.
FINISH = Color impregnated black, bronze, or hand-rubbed verde antiqued over black.
LENS = Frosted annealed glass.
SOCKET = Bi-pin type (G4).
WIRING = Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

DCL1 BRASS
DCL1-N Natural Brass
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
HOUSING = Solid die-cast brass housing and backplate with stainless steel set screws.
FINISH = Natural brass finish.
LENS = Frosted annealed glass.
SOCKET = Bi-pin type (G4).
WIRING = Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

DAL1 ALUMINUM
DAL1-A Black
DAL1-B White
DAL1-G Verde
DAL1-H Bronze
DAL1-T Speckled Stone
DAL1-U Sienna
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
HOUSING = Cast aluminum construction with stainless steel set screws.
FINISH = Black, white, hand-rubbed verde antiqued over black thermoset powdercoat, bronze, speckled stone, or sienna thermoset powdercoat.
LENS = Frosted annealed glass.
SOCKET = Bi-pin type (G4).
WIRING = Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

DAL1-SS STAINLESS STEEL
DAL1-SS Stainless Steel
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
HOUSING = Stainless steel housing with stainless steel set screws.
FINISH = Stainless steel brushed matte finish.
LENS = Frosted annealed glass.
SOCKET = Bi-pin type (G4).
WIRING = Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Horizontal Foot Candles

Distance From Lamp

Mounting Height

36”
30”
24”
18”

1’ 2’ 3’ 4’ 5’ 6’ 7’ 8’

1.2 1.9 2.6 2.6 2.6 1.5 1.1 0.9 0.8 0.7 0.5 0.0

3-1/2” [89mm]
1-7/8” [48mm]
**SRL4 ALUMINUM**

- **SRL4-A Black**
- **SRL4-B White**
- **SRL4-G Verde**
- **SRL4-H Bronze**

- 12 Volt
- 12 watt maximum
- 10 watt Xenon lamp (included)

**HOUSING** — Cast aluminum construction.

**FINISH** — Black, white, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.

** SOCKET** — Wedge base.

**WIRING** — Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**SRL3 ALUMINUM**

- **SRL3-A Black**
- **SRL3-H Bronze**

- 12 Volt
- 18 watt maximum
- 1141 Lamp (included)

**HOUSING** — Die-cast aluminum with stainless steel fasteners.

**FINISH** — Black or bronze thermoset powdercoat.

**LENS** — Frosted tempered glass.

** SOCKET** — Single contact bayonet (S-8).

**WIRING** — Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**DSL1 ALUMINUM**

- **DSL1-A Black**
- **DSL1-B White**

- 12 Volt
- 18 watt maximum
- 1141 Lamp (included)

**HOUSING** — Die-cast aluminum with stainless steel fasteners.

**FINISH** — Black or white thermoset powdercoat.

**LENS** — Frosted tempered glass.

** SOCKET** — Single contact bayonet (S-8).

**WIRING** — Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.
GACL1 NATURAL COPPER
GACL1-AC Hand-Crafted Copper Down Lyte
• 12 Volt
• 10 watt maximum
• 10 watt Xenon lamp (included)
HOUSING – Hand-formed solid copper.
FINISH – Natural copper with hand-applied oxide coating will age naturally to a fine patina.
SOCKET – Wedge base (T5).
WIRING – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

GACL2 NATURAL COPPER
GACL2-AC Hand-Crafted Copper Up and Down Lyte
• 12 Volt
• 10 watt maximum
• 10 watt Xenon lamp (included)
HOUSING – Hand-formed solid copper.
FINISH – Natural copper with hand-applied oxide coating will age naturally to a fine patina.
SOCKET – Wedge base (T5).
WIRING – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

RL13 COMPOSITE
RL13-A Black
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
• Adjustable beam
HOUSING – Injection-molded Ryton® composite.
FINISH – Color impregnated black.
LENS – Molded prismatic acrylic rotatable to allow adjustable light distribution.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

DAL1-SS STAINLESS STEEL
DUL1-SS Stainless Steel
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
HOUSING – Stainless steel housing with stainless steel set screws.
FINISH – Stainless steel brushed finish.
LENS – Frosted annealed glass.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with 6-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.
DL4 BRASS
DL4-N Natural Brass
• 12 Volt
• 20 watt maximum
• T3 Lamp (10 watt included)
• Standard 4" x 4" post mount
HOUSSING – Constructed of natural die-cast brass with brass fasteners.
FINISH – Natural brass will age over time. Can be field painted.
LENS – Polycarbonate refractive lens.
REFLECTOR – Field adjustable four-sided house-side shield allows light distribution from 1, 2, 3 or all 4 sides.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

DL5 BRASS
DL5-N Natural Brass
• 12 Volt
• 20 watt maximum
• T3 Lamp (10 watt included)
• Standard 4" x 4" wood post mount
HOUSSING – Constructed of natural die-cast brass with brass fasteners.
FINISH – Natural brass will age over time. Can be field painted.
LENS – Polycarbonate refractive lens.
REFLECTOR – Field adjustable four-sided house-side shield allows light distribution from 1, 2, 3 or all 4 sides.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

GADL4 COPPER
GADL4-AC Hand-Crafted Copper
• 12 Volt
• 10 watt maximum
• T3 Lamp (10 watt included)
• Standard 4" x 4" wood post mount
HOUSSING – Hand-formed solid copper.
FINISH – Natural copper with hand-applied oxide coating will age naturally to a fine patina.
LENS – Polycarbonate refractive lens.
REFLECTOR – Field adjustable, four-sided house-side shield allows light distribution from 1, 2, 3 or all 4 sides.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.
**GADL51/GADL52 COPPER**

GADL51-AC Hand-Crafted Copper
GADL52-AC Hand-Crafted Copper

- 12 Volt
- 35 watt maximum
- T3 Lamp (20 watt included)

**HOUSING** – Hand-formed solid copper sheet with brass screws.

**POST FITTER** – 4” x 4” formed solid copper fitter. Consult factory for additional fitter sizes.

**FINISH** – Natural copper with hand-applied oxide coating for pre-aged appearance. Will age naturally to a fine patina.

**GLASS** – Honey-colored iridized art glass.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

*GADL51-AC fits over standard wooden 4” x 4” post.
*GADL52-AC fits over standard vinyl 4” x 4” post.

---

**GADL61/GADL62 COPPER**

GADL61-AC Hand-Crafted Copper
GADL62-AC Hand-Crafted Copper

- 12 Volt
- 35 watt maximum
- T3 Lamp (20 watt included)

**HOUSING** – Hand-formed solid copper sheet with brass screws.

**POST FITTER** – 6” x 6” formed solid copper fitter. Consult factory for additional fitter sizes.

**FINISH** – Natural copper with hand-applied oxide coating for pre-aged appearance. Will age naturally to a fine patina.

**GLASS** – Honey-colored iridized art glass.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

*GADL61-AC fits over standard wooden 6” x 6” post.
*GADL62-AC fits over standard vinyl 6” x 6” post.
**RLL2 COPPER**

- **RLL2-PC Copper**
  - 12 Volt
  - 12 watt maximum
  - 93 Lamp (included)

**HOUSING** – Solid copper louvered faceplate with galvanized steel, single gang recessed back box.

**FINISH** – Natural untreated copper will patina with age.

**LENS** – Frosted, tempered glass behind louvers.

**SOCKET** – Single contact bayonet (S-8).

**MOUNTING** – Mounting hardware included.

**WIRING** – Prewired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.

**BOX DIMENSIONS** –
- 2-1/4" W [50mm]
- 3-1/2" L [89mm]
- 2-3/4" D [70mm]

---

**RLL2 STAINLESS STEEL**

- **RLL2-SS Stainless Steel Brushed Matte Finish**
  - 12 Volt
  - 12 watt maximum
  - 93 Lamp (included)

**HOUSING** – Stainless steel louvered faceplate with galvanized steel, single gang recessed back box.

**FINISH** – Stainless steel brushed matte finish

**LENS** – Frosted, tempered glass behind louvers.

**SOCKET** – Single contact bayonet (S-8).

**MOUNTING** – Mounting hardware included.

**WIRING** – Prewired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.

**BOX DIMENSIONS** –
- 2-1/4" W [50mm]
- 3-1/2" L [89mm]
- 2-3/4" D [70mm]

---

**RLL1 ALUMINUM**

- **RLL1-A Black**
  - 12 Volt
  - 12 watt maximum
  - 93 Lamp (included)

**HOUSING** – Die-cast aluminum faceplate with galvanized steel, single gang recessed box with stainless steel fasteners.

**FINISH** – Black thermoset powdercoat.

**LENS** – Frosted tempered glass.

**SOCKET** – Single contact bayonet (S-8).

**MOUNTING** – Mounting hardware included.

**WIRING** – Prewired with a 6-ft. pigtail and a quick connector for easy hookup to the supply cable.

**BOX DIMENSIONS** –
- 2-1/4" W [50mm]
- 3-1/2" L [89mm]
- 2-3/4" D [70mm]

---

**RFL1 ALUMINUM**

- **RFL1-A Black**
  - 12 Volt
  - 12 watt maximum
  - 93 Lamp (included)

**HOUSING** – Die-cast aluminum faceplate with galvanized steel, single gang recessed box with stainless steel fasteners.

**FINISH** – Black thermoset powdercoat.

**LENS** – Frosted, tempered glass.

**SOCKET** – Single contact bayonet (S-8).

**MOUNTING** – Mounting hardware included.

**WIRING** – Pre-wired with a 6-ft. pigtail and a quick connector for easy hookup to the supply cable.

**BOX DIMENSIONS** –
- 2-1/4" W [50mm]
- 3-1/2" L [89mm]
- 2-3/4" D [70mm]
**LLL COPPER**
LLL6-AC  LLL12-AC  LLL24-AC
- 12 Volt
- 10 watt maximum
- Wedge base Xenon lamp (included)
**MATERIAL** – Solid copper square extrusion with solid copper ends.
**FINISH** – Natural copper will patina with age.
**SOCKET** – Wedge base hinged for easy relamping (LLL24 has two (2) sockets each).
**REFLECTOR** – Stainless steel.
**MOUNTING** – Two (2) stainless #8 wood screws (supplied) via key slots.
**WIRING** – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

**LLL STAINLESS STEEL**
LLL6-SS  LLL12-SS  LLL24-SS
- 12 Volt
- 10 watt maximum
- Wedge base Xenon lamp (included)
**MATERIAL** – Stainless steel square extrusion with stainless steel ends.
**FINISH** – Stainless steel brushed matte finish.
**SOCKET** – Wedge base hinged for easy relamping (LLL24 has two (2) sockets each).
**REFLECTOR** – Stainless steel.
**MOUNTING** – Two (2) stainless #8 wood screws (supplied) via key slots.
**WIRING** – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

**MPLLL**
Mounting Accessory for LLL Linelytes
Includes two hex nuts for easy attachment to fixture.
Allows fixture to be mounted under ledge of stacked stone or brick wall without drilling.
Housing – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

Flange – Die-cast aluminum trim contains less than 0.3% copper to resist corrosion.

Finish – Aluminum parts have zinc-rich primer and thermoset powdercoat for durability.

Bubble Lens – UV stabilized injection molded clear polycarbonate.

Horizontal Louver – Die-cast copper-free aluminum with 45° cutoff, with frosted tempered glass.

Opal Lens – UV stabilized, injection molded polycarbonate.

Socket – Single contact bayonet (S-8) or bi-pin (G4).

Reflector – High performance aluminum reflector for optimum symmetrical light output.

Electrical – Low voltage models are pre-wired with 6-ft. cord and low voltage quick connector.

ADA Compliant – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

### Accessories

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAKM</td>
<td>Masonry Construction Mounting Kit</td>
</tr>
<tr>
<td>MAKNS</td>
<td>New Stud Wall Construction Mounting Kit</td>
</tr>
<tr>
<td>MAKES</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
</tr>
</tbody>
</table>

Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
Low Voltage Round Steplyte Product Selection Guide

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Finish</th>
<th>Thermal Protection Device (P)*</th>
<th>Max Wattage</th>
<th>Lamp</th>
<th>Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRBL13-A</td>
<td>Recessed Steplyte, Bubble Faceplate</td>
<td>Black</td>
<td>Specify</td>
<td>12w</td>
<td>T3</td>
<td>Single Contact Bayonet</td>
</tr>
<tr>
<td>RRBL13-H</td>
<td>Recessed Steplyte, Bubble Faceplate</td>
<td>Bronze</td>
<td>Specify</td>
<td>12w</td>
<td>T3</td>
<td>Single Contact Bayonet</td>
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<tr>
<td>RRBL14-A</td>
<td>Recessed Steplyte, Bubble Faceplate</td>
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<td>Specify</td>
<td>10w</td>
<td>T3</td>
<td>Bi-Pin</td>
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<tr>
<td>RRBL14-H</td>
<td>Recessed Steplyte, Bubble Faceplate</td>
<td>Bronze</td>
<td>Specify</td>
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<td>T3</td>
<td>Bi-Pin</td>
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<tr>
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<td>Recessed Steplyte, Louver Faceplate</td>
<td>Black</td>
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<td>T3</td>
<td>Single Contact Bayonet</td>
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<tr>
<td>RRCL13-B</td>
<td>Recessed Steplyte, Louver Faceplate</td>
<td>White</td>
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<td>12w</td>
<td>T3</td>
<td>Single Contact Bayonet</td>
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<tr>
<td>RRCL13-H</td>
<td>Recessed Steplyte, Louver Faceplate</td>
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<td>Recessed Steplyte, Louver Faceplate</td>
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<tr>
<td>RRFL13-A</td>
<td>Recessed Steplyte, Flat Opal Faceplate</td>
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<td>T3</td>
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* Thermal protection device is required for installations in drywall, plaster, wood or other non-masonry materials. Add the suffix “P” to the catalog number to order.

** Lamp included.
**CB100 COMPOSITE**

**HOUSING** – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**FLANGE** – Die-cast aluminum trim contains less than 0.3% copper to resist corrosion. (Note: Flange not included with CB100 fixture.)

**FINISH** – Aluminum parts have zinc-rich primer and thermoset powdercoat for durability. Faceplates are color-impregnated.

**HORIZONTAL LOUVER FACEPLATE** – Injection molded Ryton® composite with frosted tempered glass, with stainless steel screws.

**BUBBLE FACEPLATE** – UV stabilized injection molded colored/clear polycarbonate with stainless steel screws.

**OPAL FACEPLATE** – UV stabilized, injection molded polycarbonate, reinforced with frosted tempered glass, with stainless steel screws.

**SOCKET** – Single contact bayonet (S-8) or bi-pin (G4).

**ELECTRICAL** – Low voltage models are pre-wired with 6-ft. cord and low voltage quick connector.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

**RSBL2 POLYCARBONATE**

**RSFL2 POLYCARBONATE**

### ACCESSORIES

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<td>MAKEC (CB100 only)</td>
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LOW VOLTAGE STEPYLET PRODUCT SELECTION GUIDE

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<tbody>
<tr>
<td>CB100AK5812</td>
<td>Recessed Stepyle, Composite Louvered Faceplate</td>
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<td>CB100HK5812</td>
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<td>Bi-Pin</td>
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<td>Bronze</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
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* Thermal protection device is required for installations in drywall plaster, wood or other non-masonry materials. Add the suffix “P” to the catalog number to order.
** Lamp Included.
*** When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.
**HOUSING** — Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**FLANGE** — Die-cast aluminum trim contains less than 0.3% copper to resist corrosion.

**FINISH** — Aluminum parts have zinc-rich primer and thermoset powdercoat for durability.

**FACEPLATE** — Die-cast copper free aluminum with 45° cutoff, with frosted tempered glass. Cast bronze louver is natural cast bronze with frosted tempered glass.

**SOCKET** — Single contact bayonet (S-8) or bi-pin (G4).

**ELECTRICAL** — Low voltage models are pre-wired with 6-ft. cord and low voltage quick connector.

**ADA COMPLIANT** — Compliant when used in indoor and outdoor wall applications. ETL, cETL Listed.

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### Low Voltage Steplyte Product Selection Guide

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<tr>
<td>RSL2AK5812</td>
<td>Recessed Steplyte, Louver Faceplate</td>
<td>Black</td>
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<td>Single Contact Bayonet</td>
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<td>Single Contact Bayonet</td>
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<td>RSL2AK5812</td>
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<td>Single Contact Bayonet</td>
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<tr>
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<td>Single Contact Bayonet</td>
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<tr>
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<td>Single Contact Bayonet</td>
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<td>RSLV2NK5812</td>
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<td>Natural Bronze</td>
<td>Specify</td>
<td>2 - 18 w</td>
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<td>Single Contact Bayonet</td>
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<td>Natural Bronze</td>
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<td>n/a</td>
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</table>

*Thermal protection device is required for installations in drywall, plaster, wood or other non-masonry materials. Add the suffix “P” to the catalog number to order.

**Lamp Included.

***When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.
INSTALLATION FOR NEW STUD WALL
(Use Accessory Kit #MAKNS)
1. Using the supplied template, cut a level hole through the existing wall between studs. (Failure to level hole will cause fixture to have tilted appearance.)
2. Mount L-brackets onto top and bottom of housing with screws positioned in center of slots.
3. Insert cross brackets through L-brackets.
4. Position fixture so the back of the finishing ring extends past the studs the thickness of the wallboard.
5. Level fixture and hammer tabs on cross brackets into studs. Nail brackets securely to studs.
6. Fine adjust fixture position and tighten any loose screws.
7. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
8. Remove finishing ring by removing flathead screws.
9. Install wallboard.
10. Replace finishing ring.
11. Install thermal protector (attached to electrical chassis).

INSTALLATION FOR EXISTING STUD WALL
(Use Accessory Kit #MAKES)
1. Using the supplied template, cut a level hole through the existing wall between studs. (Failure to level hole will cause fixture to have tilted appearance.)
2. Push the mounting screws through the housing holes and into rear channels. (Note: a thin membrane covers the housing holes and may require forcing the screws through by tapping them lightly with a hammer.)
3. Place flags flat on rear of housing. Thread screws into and through the flags.
4. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing. (Through wiring not recommended.)
5. Remove wiring compartment screw and wiring compartment from housing.
6. Push housing into the hole in the wall.
7. Tighten the mounting screws until the flag fasteners are drawn tight against the inner surface of the wall.
8. Replace wiring compartment in its original position and replace screw.
9. Install thermal protector (attached to electrical chassis).

INSTALLATION FOR CONCRETE POUR
(Hardware included with each fixture)
1. Level supplied template on wood support frame and drill 3/16” diameter clearance holes as marked.
2. Remove the 1/2” NPT plugs from the sides/bottom of the housing.
3. Install plastic protective shield (if supplied) into housing.
4. Pull the supply wire through into the housing. (Through wiring not recommended.) Be sure all unused electrical plugs are replaced. Finishing ring may be removed now and replaced after concrete pour.
5. Secure housing to wood support with screws supplied in hardware packet.
6. Pour concrete.
7. If finishing ring was removed, replace it and tighten flathead screws. If screws are not tight, fixture may leak.

INSTALLATION FOR MASONRY
(Use Accessory Kit #MAKM)
1. Install screw through washer and lower masonry brackets and into tapped housing hole on bottom of fixture.
2. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
3. Press fixture and lower masonry brackets into layer of mortar so that mortar comes through the holes of the brackets.
4. After laying another course of blocks, install the two upper masonry brackets onto the housing as in Step 1.
Installation for New Stud Wall

(Use Accessory Kit #MAKNS)

1. Using the supplied template, cut a level hole through the existing wall between studs. (Failure to level hole will cause fixture to have tilted appearance.)
2. Mount L-brackets onto top and bottom of housing with screws positioned in center of slots.
3. Insert cross brackets through L-brackets.
4. Position fixture so the back of the finishing ring extends past the studs the thickness of the wallboard.
5. Level fixture and hammer tabs on cross brackets into studs. Nail brackets securely to studs.
6. Fine adjust fixture position and tighten any loose screws.
7. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing. (Through wiring not recommended.)
8. Remove finishing ring by removing flathead screws.
9. Install wallboard.
10. Replace finishing ring.
11. Install thermal protector (attached to electrical chassis).

Installation for Existing Stud Wall

(Use Accessory Kit #MAKES)

1. Using the supplied template, cut a level hole through the existing wall between studs. (Failure to level hole will cause fixture to have tilted appearance.)
2. Push the four (4) mounting screws through the housing holes and into rear channels. (Note: a thin membrane covers the housing holes and may require forcing the screws through by tapping them lightly with a hammer.)
3. Place flags flat on rear of housing. Thread screws into and through the flags.
4. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
5. Push housing into the hole in the wall.
6. Tighten the mounting screws until the flag fasteners are drawn tight against the inner surface of the wall.
7. Install thermal protector (attached to electrical chassis).

Installation for Concrete Pour

(Hardware included with each fixture)

1. Level supplied template on wood support frame and drill four (4) 3/16” diameter clearance holes as marked.
2. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
3. Install plastic protective shield (if supplied) into housing and make sure all unused electrical plugs are replaced.
4.Finishing ring may be removed now and replaced after concrete pour.
5. Secure housing to wood support with screws supplied in hardware packet.
6. Pour concrete.
7. If finishing ring was removed, replace it and tighten flathead screws. If screws are not tight, fixture may leak.

Installation for Masonry

(Use Accessory Kit #MAKM)

1. Install screw through washer and lower masonry brackets and into tapped housing hole on bottom of fixture.
2. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
3. Press fixture and lower masonry brackets into layer of mortar so that mortar comes through the holes of the brackets.
4. After laying another course of blocks, install the two upper masonry brackets onto the housing as in Step 1.
LOW VOLTAGE
WALKWAY LIGHTING
Perhaps as important as the destination: the lights that show the way.

From spun solid copper that patinas with age to minimalist cast bronze, from Art Nouveau to Arts and Crafts, our pathlytes harmonize with a broad range of architectural styles.

If you’re not sure about the ideal placement, our easy-to-understand recommended spacing diagrams make it easy to decide.

As for which style to pick … it all depends where the path leads you.
CUL2 COPPER
CUL2 Copper
CUL2-VC Verde Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)
HOUSING – Spun solid copper roof with solid copper stem. Machined copper threaded adapter for tool-less relamping.
FINISH – Natural copper will patina with age. Reflective white powdercoat on underside of roof. Verde copper with hand-applied oxide coating will age to a fine patina.
LENS – Clear borosilicate glass.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - CUL2 - 15’ Horizontal footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>6.46</td>
<td>3.83</td>
<td>1.57</td>
<td>.81</td>
<td>.45</td>
<td>.45</td>
<td>.41</td>
<td>.48</td>
<td>.52</td>
</tr>
</tbody>
</table>

3-1/2” [89mm]

22-1/2” [572mm]

CUL3 COPPER
CUL3 Copper
CUL3-VC Verde Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)
HOUSING – Spun solid copper roof with 180° glare shield and solid copper stem. Machined copper threaded adapter for tool-less relamping.
FINISH – Natural copper will patina with age. Reflective white powdercoat on underside of roof and inside of glare shield. Verde copper with hand-applied oxide coating will age to a fine patina.
LENS – Clear borosilicate glass.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - CUL3 - 12’ Horizontal footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>3.18</td>
<td>1.70</td>
<td>1.20</td>
<td>.85</td>
<td>.62</td>
<td>.49</td>
<td>.39</td>
<td>.36</td>
<td>.30</td>
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</tbody>
</table>

2-1/2” [64mm]

23-1/8” [587mm]

CUL4 COPPER
CUL4 Copper
CUL4-VC Verde Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)
HOUSING – Spun solid copper roof rolled under for strength with solid copper stem. Machined brass threaded adapter for tool-less relamping.
FINISH – Natural copper will patina with age. Reflective white powdercoat on underside of roof. Verde copper with hand-applied oxide coating will age to a fine patina.
LENS – Frosted borosilicate glass.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - CUL4 - 11’ Horizontal footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>6’</th>
<th>7’</th>
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<th>9’</th>
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</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>18.23</td>
<td>5.55</td>
<td>3.44</td>
<td>.87</td>
<td>.39</td>
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</table>

4” [102mm]

11-9/16” [294mm]

Recommended Spacing - CUL2 - 15’ Horizontal footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>9’</th>
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</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>6.46</td>
<td>3.83</td>
<td>1.57</td>
<td>.81</td>
<td>.45</td>
<td>.45</td>
<td>.41</td>
<td>.48</td>
<td>.52</td>
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</tbody>
</table>

3-1/2” [89mm]

22-1/2” [572mm]
### CUL6 COPPER

CUL6 Copper
CUL6-VC Verde Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)

**HOUSING** - Spun solid copper roof rolled under for strength with solid copper stem. Machined brass threaded adapter for tool-less relamping.

**FINISH** - Natural copper will patina with age. Reflective white powdercoat on underside of roof. Verde copper with hand-applied oxide coating will age to a fine patina.

**LENS** - Frosted borosilicate glass.

**SOCKET** - Bi-pin type (G4).

**WIRING** - Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

**Recommended Spacing - CUL6 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>9’</th>
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</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>9.89</td>
<td>3.53</td>
<td>2.72</td>
<td>1.28</td>
<td>.98</td>
<td>.52</td>
<td>.33</td>
<td>.10</td>
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</tbody>
</table>

### CUL7 COPPER

CUL7 Copper
CUL7-VC Verde Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)

**HOUSING** - Spun solid copper roof with solid copper stem. Machined copper threaded adapter for tool-less relamping.

**FINISH** - Natural copper will patina with age. Reflective white powdercoat on underside of roof. Verde copper with hand-applied oxide coating will age to a fine patina.

**LENS** - Clear borosilicate glass.

**SOCKET** - Bi-pin type (G4).

**WIRING** - Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

**Recommended Spacing - CUL7 - 15’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>9.15</td>
<td>4.36</td>
<td>2.05</td>
<td>1.00</td>
<td>.48</td>
<td>.26</td>
<td>.18</td>
<td>.16</td>
<td>.13</td>
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</table>

### CUL9 COPPER

CUL9 Copper
CUL9-VC Verde Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)

**HOUSING** - Spun solid copper roof with solid copper stem. Machined copper threaded adapter for tool-less relamping.

**FINISH** - Natural copper will patina with age. Reflective white powdercoat on underside of roof. Verde copper with hand-applied oxide coating will age to a fine patina.

**LENS** - Clear borosilicate glass.

**SOCKET** - Bi-pin type (G4).

**WIRING** - Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

**Recommended Spacing - CUL9 - 20’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>9.46</td>
<td>4.35</td>
<td>2.13</td>
<td>1.03</td>
<td>.65</td>
<td>.44</td>
<td>.29</td>
<td>.13</td>
<td>.10</td>
</tr>
</tbody>
</table>
CUL10 COPPER
CUL10 Copper
CUL10-VC Verde Copper
• 12 Volt
• 20 watt maximum
• T3 Lamp (included)
HOUSING – Spun solid copper roof rolled under for strength with solid copper stem. Machined brass threaded adapter for tool-less relamping.
FINISH – Natural copper will patina with age. Reflective white powdercoat on underside of roof. Verde copper with hand-applied oxide coating will age to a fine patina.
LENS – Frosted boroisilicate glass.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 3-ft pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.
Recommended Spacing - CUL10 - 12' Horizontal footcandles

GAL3 COPPER
GAL3-AC Hand-Crafted Copper
• 12 Volt
• 12 watt maximum
• 10 watt Xenon lamp (included)
• 1/2” NPS fitter
HOUSING – Solid copper square extrusion with solid copper end and brass fitter.
FINISH – Natural copper will patina with age.
SOCKET – Wedge base, hinged for re-lamping.
REFLECTOR – Stainless steel.
WIRING – Pre-wired with a 3-ft pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

GAL3-SS STAINLESS STEEL
GAL3-SS Stainless Steel
• 12 Volt
• 12 watt maximum
• 10 watt Xenon lamp (included)
• 1/2” NPS fitter
HOUSING – Stainless steel square extrusion with stainless steel end and stainless steel fitter.
SOCKET – Wedge base, hinged for re-lamping.
REFLECTOR – Stainless steel brushed matte finish.
WIRING – Pre-wired with a 3-ft pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - GAL3-6’ Horizontal footcandles

Recommended Spacing - GAL3-6’ Horizontal footcandles

Recommended Spacing - GAL3-6’ Horizontal footcandles
GAML1 COPPER
GAML1-AC Hand-Crafted Copper
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
• 1/2” NPS fitter
HOUSING – Hand-formed solid copper; mushrooms have unique individual tops.
FINISH – Natural copper with hand-applied oxide coating will age to a fine patina.
LENS – Frosted tempered glass sprinkler shield.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - GAML1-AC - 8’
Horizontal footcandles

GAML2 COPPER
GAML2-AC Hand-Crafted Copper
• 12 Volt
• 20 watt maximum
• T3 Lamp (included)
• 1/2” NPS fitter
HOUSING – Hand-formed solid copper; mushrooms have unique individual tops.
FINISH – Natural copper with hand-applied oxide coating will age to a fine patina.
LENS – Frosted tempered glass sprinkler shield.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - GAML2-AC - 12’
Horizontal footcandles

GAML3 COPPER
GAML3-AC Hand-Crafted Copper
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
• 1/2” NPS fitter
HOUSING – Hand-formed solid copper and copper tubing. Mushrooms have unique individual tops. (Large mushroom is the only one that illuminates.)
FINISH – Natural copper with hand-applied oxide coating will age naturally to a fine patina.
LENS – Frosted tempered glass sprinkler shield.
SOCKET – Bi-pin type (G4).
WIRING – Pre-wired with 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - GAML3-AC - 8’
Horizontal footcandles
**GAML4 COPPER**

GAML4-AC Hand-Crafted Copper

- 12 Volt
- 10 watt maximum
- T3 Lamp (included)
- 1/2” NPS fitter

**HOUSING** – Hammered copper roof with hemmed edge and copper stem.

**FINISH** – Natural copper with a hand-applied oxide coating will age naturally to a fine patina.

**LENS** – Frosted tempered glass sprinkler shield.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**Recommended Spacing - GAML4-AC - 8’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 10W T3</td>
<td>4.25</td>
<td>3.35</td>
<td>50</td>
<td>35</td>
<td>11</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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**GAML5 COPPER**

GAML5-AC Hand-Crafted Copper

- 12 Volt
- 20 watt maximum
- T3 Lamp (included)
- 1/2” NPS fitter

**HOUSING** – Hammered copper roof with hemmed edge and copper stem.

**FINISH** – Natural copper with a hand-applied oxide coating will age naturally to a fine patina.

**LENS** – Frosted tempered glass sprinkler shield.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**Recommended Spacing - GAML5-AC - 12’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>3.40</td>
<td>1.33</td>
<td>1.67</td>
<td>50</td>
<td>35</td>
<td>11</td>
<td>-</td>
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</tbody>
</table>

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** PATHLYTES**

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**PATHLYTES**

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**PATHLYTES**
GASL1 COPPER
GASL1-AC Hand-Crafted Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)
- 1/2” NPS fitter
Housing – Hand-formed solid copper and copper tubing.
Finish – Natural copper with hand-applied oxide coating will age naturally to a fine patina.
Glass – Opalescent glass panels.
Socket – Bi-pin type (G4).
Wiring – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - GASL1-AC - 9’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>1.07</td>
<td>1.31</td>
<td>1.56</td>
<td>1.89</td>
<td>2.10</td>
<td>2.34</td>
<td>2.50</td>
<td>2.64</td>
<td>2.79</td>
</tr>
</tbody>
</table>

GASL4 COPPER
GASL4-AC Hand-Crafted Copper
- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter
Housing – Hand-formed solid copper and copper tubing.
Finish – Natural copper with hand-applied oxide coating will age naturally to a fine patina.
Glass – Honey-colored iridized art glass.
Socket – Single contact bayonet (S-8).
Wiring – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - GASL4-AC - 10’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>1.62</td>
<td>1.53</td>
<td>1.46</td>
<td>1.37</td>
<td>1.29</td>
<td>1.20</td>
<td>1.10</td>
<td>1.00</td>
<td>1.00</td>
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</table>

GASL5 COPPER
GASL5-AC Hand-Crafted Copper
- 12 Volt
- 20 watt maximum
- T3 Lamp (included)
- 1/2” NPS fitter
Housing – Hand-formed solid copper sheet with brass screws.
Fitter – Stainless Steel 1/2” NPS fitter recessed into bollard for clean appearance.
Finish – Natural copper with hand-applied oxide coating will age naturally to a fine patina.
Glass – Honey-colored iridized art glass.
Socket – Bi-pin type (G4).
Wiring – Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - GASL5-AC - 10’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
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</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>1.09</td>
<td>1.35</td>
<td>1.59</td>
<td>1.85</td>
<td>2.00</td>
<td>2.15</td>
<td>2.30</td>
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 Recommended Spacing - GASL1-AC - 9’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
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<th>3’</th>
<th>4’</th>
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<tbody>
<tr>
<td>12V, 20W T3</td>
<td>1.07</td>
<td>1.31</td>
<td>1.56</td>
<td>1.89</td>
<td>2.10</td>
<td>2.34</td>
<td>2.50</td>
<td>2.64</td>
<td>2.79</td>
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</table>

Recommended Spacing - GASL4-AC - 10’

<table>
<thead>
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<th>Volt/Lamp</th>
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<th>3’</th>
<th>4’</th>
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<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>1.62</td>
<td>1.53</td>
<td>1.46</td>
<td>1.37</td>
<td>1.29</td>
<td>1.20</td>
<td>1.10</td>
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Recommended Spacing - GASL5-AC - 10’

<table>
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<th>4’</th>
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<tbody>
<tr>
<td>12V, 20W T3</td>
<td>1.09</td>
<td>1.35</td>
<td>1.59</td>
<td>1.85</td>
<td>2.00</td>
<td>2.15</td>
<td>2.30</td>
<td>2.45</td>
<td>2.60</td>
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</tbody>
</table>
PATHLYTES

**GAGL1 COPPER**
GAGL1-AC Hand-Crafted Copper
- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter

**HOUSING** – Hand-formed solid copper and copper tubing with individually shaped leaves.

**FINISH** – Natural copper with hand-applied oxide coating will age naturally to a fine patina.

**GLASS** – Hand-blown amber glass shades with green accent.

**SOCKET** – Single contact bayonet (S-8).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**GATL1 COPPER**
GATL1-AC Hand-Crafted Copper
- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter

**HOUSING** – Hand-formed solid copper and copper tubing with individually shaped leaves.

**FINISH** – Natural copper with hand-applied oxide coating will age naturally to a fine patina.

**SOCKET** – Single contact bayonet (S-8).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**EPL1 BRASS**
EPL1-N Natural Brass
- 12 Volt
- 10 watt maximum
- T3 Lamp (included)
- 1/2” NPS fitter

**HOUSING** – Die-cast brass with brass stem and screws. Includes 30º flood aluminum reflector.

**FINISH** – Natural brass.

**LENS** – Clear tempered glass.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**Recommended Spacing - GAGL1-AC - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>10.7</td>
<td>10.85</td>
<td>.42</td>
<td>3</td>
<td>.1</td>
<td>.06</td>
<td>.04</td>
<td>.02</td>
<td>-</td>
</tr>
<tr>
<td>12V, 27W 1156</td>
<td>9.96</td>
<td>3.95</td>
<td>1.54</td>
<td>.71</td>
<td>.39</td>
<td>.24</td>
<td>.14</td>
<td>.11</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**Recommended Spacing - GATL1-AC - 14’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>9.96</td>
<td>3.95</td>
<td>1.54</td>
<td>.71</td>
<td>.39</td>
<td>.24</td>
<td>.14</td>
<td>.11</td>
<td>-</td>
</tr>
</tbody>
</table>

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**Recommended Spacing - EPL1 - 8’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>15.29</td>
<td>6.57</td>
<td>3.4</td>
<td>2.59</td>
<td>.68</td>
<td>.39</td>
<td>.21</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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**Recommended Spacing**

**GAGL1 COPPER**
- 9-9/16” [243mm]
- 25-1/16” [636mm]

**GATL1 COPPER**
- 9-9/16” [243mm]
- 25-1/16” [636mm]

**EPL1 BRASS**
- 7-11/16” [195mm]
- 24-5/16” [618mm]
EL2 BRASS
EL2-N Natural Brass
• 12 Volt
• 10 watt maximum
• T3 Lamp (included)
• 1/2” NPS fitter
HOUSING = Die-cast brass with fully-adjustable brass yoke-mounted arm, brass stem and screws. Includes 30° flood aluminum reflector.
FINISH = Natural brass.
LENS = Clear tempered glass.
SOCKET = Bi-pin type (G4).
WIRING = Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - EL2 - 8’
<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>15.29</td>
<td>6.51</td>
<td>2.4</td>
<td>2.59</td>
<td>.48</td>
<td>.39</td>
<td>.21</td>
<td>-</td>
</tr>
</tbody>
</table>

SPL4 BRASS
SPL4-N Natural Brass
• 12 Volt
• 20 watt maximum
• T3 Lamp (included)
• 1/2” NPS fitter
HOUSING = Die-cast brass top, brass stem and spun brass shade. (Natural brass fixture has spun stainless steel shade.) Lens and shade assembly is twist-lock for tool-less relamping.
FINISH = Natural brass with stainless steel shade.
LENS = Frosted tempered glass.
SOCKET = Bi-pin type (G4).
WIRING = Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - SPL4 - 10’
<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>5.42</td>
<td>5.29</td>
<td>2.4</td>
<td>1.3</td>
<td>.74</td>
<td>.29</td>
<td>.17</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

SPL5 BRASS
SPL5-N Natural Brass
• 12 Volt
• 20 watt maximum
• T3 Lamp (included)
• 1/2” NPS fitter
HOUSING = Die-cast brass top, brass stem and glass guard with spun brass shade. (Natural brass fixture has natural spun copper shade.) Lens and shade assembly is twist-lock for tool-less relamping.
FINISH = Natural brass with natural copper shade.
LENS = Frosted tempered glass.
SOCKET = Bi-pin type (G4).
WIRING = Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - SPL5 - 10’
<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>11.67</td>
<td>4.97</td>
<td>2.34</td>
<td>.86</td>
<td>.35</td>
<td>.19</td>
<td>.09</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

2-15/16” [75mm]
20-11/16” [525mm]

2-5/8” [67mm]
20-7/16” [519mm]

24-3/4” [629mm]
7-9/16” [192mm]
7-7/8” [200mm]
24-3/4” [629mm]
**MUL4 ALUMINUM**

- **MUL4-A** Black
- **MUL4-G** Verde
- **MUL4-H** Bronze
- **MUL4-U** Sienna

- **12 Volt**
- **T3 Lamp (included)**

**HOUSING** — Cast aluminum with stainless steel hinges and spring latch providing tool-less entry.

**FINISH** — Black, bronze, hand-rubbed verde antiqued over black thermoset powdercoat, speckled stone or sienna thermoset powdercoat.

**LENS** — Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** — Bi-pin type (G4).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**MUL4 BRASS**

- **MUL4-N** Natural Brass
- **MUL4-OB** Oiled Brass

- **12 Volt**
- **20 watt maximum**
- **T3 Lamp (included)**
- **1/2" NPS fitter**

**HOUSING** — Die-cast brass with stainless steel hinges and spring latch, providing tool-less entry.

**FINISH** — Natural brass or oiled brass.

**LENS** — Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** — Bi-pin type (G4).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**MUL5 ALUMINUM**

- **MUL5-A** Black
- **MUL5-G** Verde
- **MUL5-H** Bronze
- **MUL5-T** Speckled Stone
- **MUL5-U** Sienna

- **12 Volt**
- **35 watt maximum**
- **T3 Lamp (included)**
- **1/2" NPS fitter**

**HOUSING** — Cast aluminum with stainless steel hinges and spring latch providing tool-less entry.

**FINISH** — Black, bronze, hand-rubbed verde antiqued over black thermoset powdercoat, speckled stone or sienna thermoset powdercoat.

**LENS** — Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** — Bi-pin (G4).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**Recommended Spacing - MUL4 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>9.62</td>
<td>1.52</td>
<td>9.7</td>
<td>10</td>
<td>8.5</td>
<td>8.3</td>
<td>-</td>
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<td></td>
</tr>
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**Recommended Spacing - MUL4 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
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<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 35W T3</td>
<td>9.62</td>
<td>1.52</td>
<td>9.7</td>
<td>10</td>
<td>8.5</td>
<td>8.3</td>
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**Recommended Spacing - MULS - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
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<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>9.62</td>
<td>1.52</td>
<td>9.7</td>
<td>10</td>
<td>8.5</td>
<td>8.3</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

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---
**MUL5 BRASS**

- **MUL5-N** Natural Brass  
- **MUL5-OB** Oiled Brass

- 12 Volt  
- 35 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter

**HOUSING** – Die-cast brass with stainless steel hinges and spring latch, providing tool-less entry.

**FINISH** – Natural brass or oiled brass.

**LENS** – Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** – Bi-pin (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**AL4 ALUMINUM**

- **AL4-G** Verde  
- **AL4-OM** Old Marble

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter

**HOUSING** – Die-cast aluminum with stainless steel hinges and spring latch, providing tool-less entry.

**FINISH** – Verde is hand-rubbed over black thermoset powdercoat, old marble is hand applied over dark red thermoset powdercoat.

**LENS** – Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**AL41 ALUMINUM**

- **AL41-G** Verde  
- **AL41-OM** Old Marble

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter

**HOUSING** – Die-cast aluminum with stainless steel hinges and spring latch, providing tool-less entry.

**FINISH** – Verde is hand-rubbed over black thermoset powdercoat, old marble is hand applied over dark red thermoset powdercoat.

**FINIAL** – Clear seeded glass finial sparkles when illuminated.

**LENS** – Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

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**Recommended Spacing - MUL5 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
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</thead>
<tbody>
<tr>
<td>12V, 15W T3</td>
<td>9.62</td>
<td>1.57</td>
<td>.46</td>
<td>.17</td>
<td>.10</td>
<td>.05</td>
<td>.03</td>
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**Recommended Spacing - AL4 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>9.12</td>
<td>1.68</td>
<td>.55</td>
<td>.20</td>
<td>.11</td>
<td>.07</td>
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**Recommended Spacing - AL41 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>9.12</td>
<td>1.68</td>
<td>.55</td>
<td>.20</td>
<td>.11</td>
<td>.07</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
**TRL4 ALUMINUM**

TRL4-G Verde  
TRL4-U Senna

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter

**HOUSING** – Die-cast aluminum with stainless steel hinges and spring latch, providing tool-less entry.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat, speckled stone, or sienna thermoset powdercoat.

**LENS** – Frosted tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** – Bi-pin type (G-4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

Recommended Spacing - TRL4 - 10’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>6.62</td>
<td>1.52</td>
<td>.66</td>
<td>.57</td>
<td>.50</td>
<td>.05</td>
<td>-.03</td>
<td>-.</td>
<td></td>
</tr>
</tbody>
</table>

**TRL5 ALUMINUM**

TRL5-G Verde

- 12 Volt  
- 35 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter

**HOUSING** – Die-cast aluminum with stainless steel hinges and spring latch, providing tool-less entry.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat.

**LENS** – Frosted tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** – Bi-pin type (G-4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

Recommended Spacing - TRL5 - 10’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>6’</th>
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<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 35W T3</td>
<td>9.62</td>
<td>1.52</td>
<td>.66</td>
<td>.57</td>
<td>.50</td>
<td>.05</td>
<td>-.03</td>
<td>-.</td>
<td></td>
</tr>
</tbody>
</table>

**MSL12 ALUMINUM**

MSL12-A Black  
MSL12-G Verde

- 12 Volt  
- 27 watt maximum  
- 1156 Lamp (included)  
- 1/2” NPS fitter

**HOUSING** – Cast aluminum with hidden fasteners and aluminum stem.

**FINISH** – Black, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.

**SOCKET** – Single contact bayonet (S-8).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

Recommended Spacing - MSL12 - 8’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>26.0</td>
<td>4.7</td>
<td>1.2</td>
<td>.3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**Recommended Spacing - TRL4 - 10’**

- 8-5/16”  
- 23-7/16”  

**Recommended Spacing - TRL5 - 10’**

- 28-1/8”  

**Recommended Spacing - MSL12 - 8’**

- 4-1/2”  

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**PATHLYTES**

See page 76 for electrical specifications.
### MSL 18 ALUMINUM

MSL18-A Black  
MSL18-G Verde  
MSL18-H Bronze  
- 12 Volt  
- 27 watt maximum  
- 1156 Lamp (included)  
- 1/2” NPS fitter  

**HOUSING** – Cast aluminum with hidden fasteners and aluminum stem.  

**FINISH** – Black, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.  

**SOCKET** – Single contact bayonet (S-8).  

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.  

ETL, cETL Listed.

#### Recommended Spacing - MSL18 - 9’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W T3</td>
<td>4.4</td>
<td>3.5</td>
<td>.80</td>
<td>.60</td>
<td>. -</td>
<td>. -</td>
<td>. -</td>
<td>. -</td>
<td>. -</td>
</tr>
</tbody>
</table>

#### MSL 18 - 9’

- 4-1/2” [114mm]  
- 19-1/2” [495mm]

### CPL 12 ALUMINUM

CPL12-A Black  
CPL12-H Bronze  
CPL12-T Speckled Stone  
- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter  

**HOUSING** – Die-cast aluminum with twist-lock top for tool-less relamping. Built-in segmented reflector casts a high-angle distribution.  

**FINISH** – Black, bronze or speckled stone thermoset powdercoat.  

**LENS** – Clear tempered glass.  

**SOCKET** – Bi-pin type (G4).  

**WIRING** – Pre-wired with a 3-ft. pigtail and quick connector for easy hookup to the supply cable.  

ETL, cETL Listed.

#### Recommended Spacing - CPL12 - 10’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
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<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>4.4</td>
<td>3.5</td>
<td>1.90</td>
<td>.27</td>
<td>.55</td>
<td>.07</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### CPL 12 - 10’

- 4-3/4” [121mm]  
- 20” [508mm]

### CPL 21 ALUMINUM

CPL21-A Black  
CPL21-H Bronze  
CPL21-T Speckled Stone  
- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2” NPS fitter  

**HOUSING** – Die-cast aluminum with twist-lock top for tool-less relamping. Built-in segmented reflector casts a high-angle distribution.  

**FINISH** – Black, bronze or speckled stone thermoset powdercoat.  

**LENS** – Clear tempered glass.  

**SOCKET** – Bi-pin type (G4).  

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.  

ETL, cETL Listed.

#### Recommended Spacing - CPL21 - 10’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>12.5</td>
<td>8.9</td>
<td>3.58</td>
<td>1.90</td>
<td>.27</td>
<td>.15</td>
<td>.07</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### CPL 21 - 10’

- 4-3/4” [121mm]  
- 21” [533mm]
### SPL1 ALUMINUM

**SPL1-A Black**

- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter

**HOUSING** — Single-piece cast aluminum with aluminum stem included.

**FINISH** — Black or hand-rubbed verde over black thermoset powdercoat.

**SOCKET** — Single contact bayonet (S-8).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

**ETL, cETL Listed.**

---

### SPL18 ALUMINUM

**SPL18-A Black**

- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter

**HOUSING** — Single-piece cast aluminum with aluminum stem included.

**FINISH** — Black or hand-rubbed verde over black thermoset powdercoat.

**SOCKET** — Single contact bayonet (S-8).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

**ETL, cETL Listed.**

---

**Recommended Spacing - SPL1 - 15’**

<table>
<thead>
<tr>
<th>Vol/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>5.0</td>
<td>2.6</td>
<td>1.9</td>
<td>1.5</td>
<td>1.2</td>
<td>1.0</td>
<td>1.0</td>
<td>0.8</td>
<td>0.7</td>
</tr>
</tbody>
</table>

6-5/8” [168mm]

---

**Recommended Spacing - SPL18 - 13’**

<table>
<thead>
<tr>
<th>Vol/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>10.7</td>
<td>6.6</td>
<td>3.8</td>
<td>3.0</td>
<td>2.5</td>
<td>2.0</td>
<td>1.7</td>
<td>1.4</td>
<td>1.2</td>
</tr>
</tbody>
</table>

6-5/8” [168mm]

---

**Recommended Spacing - SPL1 - 15’**

<table>
<thead>
<tr>
<th>Vol/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>31”</td>
<td>28”</td>
<td>25”</td>
<td>22”</td>
<td>19”</td>
<td>16”</td>
<td>13”</td>
<td>10”</td>
<td>7”</td>
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</table>

31” [787mm]

---

**Recommended Spacing - SPL18 - 13’**

<table>
<thead>
<tr>
<th>Vol/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>18”</td>
<td>15”</td>
<td>12”</td>
<td>9”</td>
<td>6”</td>
<td>3”</td>
<td>0”</td>
<td>0”</td>
<td>0”</td>
</tr>
</tbody>
</table>

18” [457mm]
TUL1 ALUMINUM
TUL1-G Verde
• 12 Volt
• 27 watt maximum
• 1156 Lamp (included)
• 1/2” NPS fitter
HOUSING – One-piece cast aluminum with aluminum stem.
FINISH – Hand-rubbed verde antiqued over black thermoset powdercoat.
SOCKET – Single contact bayonet (S-8).
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

TUL1 CAST BRONZE
TUL1-N Natural Cast Bronze
• 12 Volt
• 27 watt maximum
• 1156 Lamp (included)
• 1/2” NPS fitter
HOUSING – One-piece cast bronze with brass stem.
FINISH – Natural cast bronze to age over time.
SOCKET – Single contact bayonet (S-8).
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - TUL1 - 8’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>8.7</td>
<td>2.7</td>
<td>9</td>
<td>3</td>
<td>.85</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</table>

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>8.7</td>
<td>2.7</td>
<td>9</td>
<td>3</td>
<td>.85</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
**TUL3 ALUMINUM**

**TUL3-G Verde**
- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter

**HOUSING** – One-piece cast aluminum with aluminum stem.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat.

**SOCKET** – Single contact bayonet (S-8).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

UL, cUL Listed.

---

**FUL1 ALUMINUM**

**FUL1-G Verde**
- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter

**HOUSING** – One-piece cast aluminum with aluminum stem.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat.

**SOCKET** – Single contact bayonet (S-8).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

UL, cUL Listed.

---

**Recommended Spacing - TUL3 - 11’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W</td>
<td>1156</td>
<td>2,8</td>
<td>5,4</td>
<td>2,3</td>
<td>1,6</td>
<td>1,4</td>
<td>0,8</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Recommended Spacing - FUL1 - 12’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W</td>
<td>1156</td>
<td>9,1</td>
<td>3,2</td>
<td>1,3</td>
<td>1,3</td>
<td>0,8</td>
<td>0,8</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
TL19 ALUMINUM

TL19-G Verde

- 12 Volt
- 20 watt maximum
- Xenon Lamp (included) • 1/2" NPS fitter
- Stem not included, order separately

HOUSING – Cast aluminum construction.

FINISH – Hand-rubbed verde antiqued over black thermoset powdercoat.

SOCKET – Wedge base.

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

Optional Stems

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S12</td>
<td>(Specify) *</td>
<td>Stem-12&quot;, 1/2&quot; NPS</td>
</tr>
<tr>
<td>S24</td>
<td>(Specify) *</td>
<td>Stem-24&quot;, 1/2&quot; NPS</td>
</tr>
<tr>
<td>S36</td>
<td>(Specify) *</td>
<td>Stem-36&quot;, 1/2&quot; NPS</td>
</tr>
</tbody>
</table>

*Specify Finishes: G- Verde (shown)

Recommended Spacing - TL19 - 8'

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>7.1</td>
<td>2.7</td>
<td>1.0</td>
<td>0.4</td>
<td>0.2</td>
<td>0.08</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

TL39 ALUMINUM

TL39-G Verde

- 12 Volt
- 20 watt maximum
- Xenon Lamp (included) • 1/2" NPS fitter
- Stem not included, order separately

HOUSING – Cast aluminum construction.

FINISH – Hand-rubbed verde antiqued over black thermoset powdercoat.

SOCKET – Wedge base.

WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

Optional Stems

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S12</td>
<td>(Specify) *</td>
<td>Stem-12&quot;, 1/2&quot; NPS</td>
</tr>
<tr>
<td>S24</td>
<td>(Specify) *</td>
<td>Stem-24&quot;, 1/2&quot; NPS</td>
</tr>
<tr>
<td>S36</td>
<td>(Specify) *</td>
<td>Stem-36&quot;, 1/2&quot; NPS</td>
</tr>
</tbody>
</table>

*Specify Finishes: G- Verde (shown)

Recommended Spacing - TL39 - 8'

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>7.2</td>
<td>1.8</td>
<td>1.0</td>
<td>0.5</td>
<td>0.4</td>
<td>0.2</td>
<td>0.1</td>
<td>0.8</td>
<td>0.05</td>
</tr>
</tbody>
</table>
**AL42 ALUMINUM**

AL42-G Verde  
AL42-T Speckled Stone  
AL42-U Sienna

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2" NPS fitter  
- Stem not included, order separately

**HOUSING** – Cast aluminum construction. Removable roof for easy relamping.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat, speckled stone or sienna thermoset powdercoat.

**LENS** – Opalescent glass panels.

**SOCKET** – Bi-pin type (G4)

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**AL43 ALUMINUM**

AL43-G Verde  
AL43-T Speckled Stone  
AL43-U Sienna

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2" NPS fitter  
- Stem not included, order separately

**HOUSING** – Cast aluminum construction. Removable roof for easy relamping.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat, speckled stone or sienna thermoset powdercoat.

**LENS** – Opalescent glass panels.

**SOCKET** – Bi-pin type (G4)

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**Recommended Spacing - AL42 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>3.5</td>
<td>2.4</td>
<td>1.3</td>
<td>.7</td>
<td>.25</td>
<td>.05</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Recommended Spacing - AL43 - 10’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>3.5</td>
<td>2.4</td>
<td>1.3</td>
<td>.7</td>
<td>.25</td>
<td>.05</td>
<td>-</td>
<td>-</td>
<td>-</td>
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**Optional Stems**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S12</td>
<td>(Specify)</td>
<td>Stem-12”, 1/2” NPS</td>
</tr>
<tr>
<td>S24</td>
<td>(Specify)</td>
<td>Stem-24”, 1/2” NPS</td>
</tr>
<tr>
<td>S36</td>
<td>(Specify)</td>
<td>Stem-36”, 1/2” NPS</td>
</tr>
</tbody>
</table>

*Specify Finishes: G-Verde (shown), T-Speckled Stone, U-Sienna
**RL4 Aluminum**

**RL4-A** Black  
**RL4-G** Verde

**RL4-T** Speckled Stone  
**RL4-U** Sienna

- 12 Volt  
- 20 watt maximum  
- T3 Lamp (included)  
- 1/2" NPS fitter

**Housing** — Cast aluminum construction.

**Finish** — Black, hand-rubbed verde antiqued over black thermoset powdercoat, speckled stone or sienna thermoset powdercoat.

**Lens** — Frosted glass.

**Socket** — Bi-pin type (G4).

**Wiring** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**RL3 Aluminum**

**RL3-G** Verde

- 12 Volt  
- 27 watt maximum  
- 1156 Lamp (included)  
- 1/2" NPS fitter

**Housing** — Cast aluminum construction.

**Finish** — Hand-rubbed verde antiqued over black thermoset powdercoat.

**Lens** — Painted glass jar with clear glass top.

**Socket** — Single contact bayonet (S-8).

**Wiring** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**Recommended Spacing - RL4 - 8’**

<table>
<thead>
<tr>
<th>Volts/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 20W T3</td>
<td>3.6</td>
<td>1.8</td>
<td>1</td>
<td>0.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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**Recommended Spacing - RL3 - 8’**

<table>
<thead>
<tr>
<th>Volts/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W T1156</td>
<td>7.2</td>
<td>1.8</td>
<td>1</td>
<td>1</td>
<td>0.5</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**10" [253mm]**

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**17-1/4" [435mm]**

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**9-1/8" [232mm]**

---

**18" [457mm]**
PL39 ALUMINUM

PL39-K Garden Green

- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter
HOUSING – Cast aluminum construction.
FINISH – Garden green thermoset powdercoat.
LENS – Clear molded glass.
SOCKET – Single contact bayonet (S-8).
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.

Recommended Spacing - PL39 - 10'

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
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</thead>
<tbody>
<tr>
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<td>3.6</td>
<td>1.1</td>
<td>1.1</td>
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</table>

Optional Stems

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>512</td>
<td>K-Garden Green Stem-12”, 1/2” NPS</td>
</tr>
<tr>
<td>524</td>
<td>K-Garden Green Stem-24”, 1/2” NPS</td>
</tr>
<tr>
<td>536</td>
<td>K-Garden Green Stem-36”, 1/2” NPS</td>
</tr>
</tbody>
</table>

Recommended Spacing - PL39 - 7'

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V, 27W 1156</td>
<td>3.8</td>
<td>3.6</td>
<td>1.1</td>
<td>1.1</td>
<td>1.0</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Pl39-K Garden Green

- 12 Volt
- 27 watt maximum
- 1156 Lamp (included)
- 1/2” NPS fitter
- Stem not included, order separately
HOUSING – Cast aluminum construction.
FINISH – Garden green thermoset powdercoat.
LENS – Clear molded glass.
SOCKET – Single contact bayonet (S-8).
WIRING – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.
ETL, cETL Listed.
**DWL1 CAST BRONZE**

DWL1-N Natural Cast Bronze

- 12 Volt
- 20 watt maximum
- T3 Halogen lamp (included)

**HOUSING** – Constructed of cast bronze, which offers superior strength and durability. Recessed housing is compression molded composite.

**FINISH** – Natural bronze.

**LENS** – Borosilicate frosted glass lens, fully gasketed top and bottom.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**DWCL1 COMPOSITE**

DWCL1-A Black

- 12 Volt
- 20 watt maximum
- T3 Halogen lamp (included)

**HOUSING** – Injection molded polyester composite resin.

**FINISH** – Color impregnated black.

**LENS** – Borosilicate glass lens, fully gasketed top and bottom.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**DWCL2 COMPOSITE**

DWCL2-A Black

- 12 Volt
- 20 watt maximum
- T3 Halogen lamp (included)

**HOUSING** – Injection molded polyester composite resin.

**FINISH** – Color impregnated black.

**LENS** – Ribbed clear acrylic, fully gasketed.

**SOCKET** – Bi-pin type (G4).

**WIRING** – Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**Recommended Spacing - DWL1 - 15'**

- Horizontal footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
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<tbody>
<tr>
<td>120, 20W T3</td>
<td>13.35</td>
<td>3.94</td>
<td>1.62</td>
<td>0.98</td>
<td>0.56</td>
<td>0.37</td>
<td>0.24</td>
<td>0.17</td>
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**Recommended Spacing - DWCL1 - 15'**

- Horizontal footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
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<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
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</thead>
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<tr>
<td>120, 20W T3</td>
<td>13.35</td>
<td>3.94</td>
<td>1.42</td>
<td>0.98</td>
<td>0.56</td>
<td>0.37</td>
<td>0.24</td>
<td>0.17</td>
<td>-</td>
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</tbody>
</table>

**Recommended Spacing - DWCL2 - 13'**

- Horizontal footcandles

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<th>Volt/Lamp</th>
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<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
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<th>9'</th>
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<tbody>
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<td>0.56</td>
<td>0.36</td>
<td>0.22</td>
<td>0.07</td>
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LOW VOLTAGE

UNDERWATER LIGHTING
Liquid luminescence. Enchanting dimension. Water features bring elemental beauty to almost any environment.

Our underwater lights illuminate water features safely and strikingly. And our selection of colored lenses gives you the freedom to explore even more dramatic effects.

From pond to fountain to waterfall, the glow of underwater lighting makes every breeze – every ripple – a detail remembered.
**UWL1 COMPOSITE**

UWL1-A Black

- 12 Volt
- 20 watt maximum
- T3 Lamp (10 watt included)

**HOUSING** – Molded Lexan® composite, internally weighted.

**FINISH** – Color impregnated black.

**LENS** – Molded prismatic acrylic with optional reflector to block uplight.

**SOCKET** – Bi-pin (G4).

**WIRING** – 10-ft. SVO cord for hard wiring to low voltage supply cable.

**NOTE:** Underwater fixtures are not for use in swimming pools or spas due to exposed wiring. ETL, cETL Listed.

---

**UWUL516 COMPOSITE**

UWUL516-H Bronze

- 12 Volt
- 50 watt maximum
- MR16 Lamp

**HOUSING** – Injection molded fiberglass reinforced ULTEM® High Performance Polymer.


**BASE** – Weighted concrete with swivel to allow up to 90° aiming.

**FINISH** – Color impregnated bronze.

**LENS** – Tempered clear glass with high impact polycarbonate clear lens guard.

**SOCKET** – Bi-pin (GU5.3).

**WIRING** – 10-ft. STWA cord for hard wiring to low voltage supply cable.

**NOTE:** Underwater fixtures are not for use in swimming pools or spas due to exposed wiring. ETL, cETL Listed.

---

<table>
<thead>
<tr>
<th>catalog no.</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBL16</td>
<td>Ice Blue Lens</td>
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</table>

**Dimensions:**

- 5" [127mm]
- 3" [76mm]
- 6-11/16" [170mm]
- 5-1/8" [130mm]
- 4-1/16" [103mm]
**UWL1075/UWL1100**  
**CAST BRONZE**  
**UWL1075-N** Natural Cast Bronze  
**UWL1100-N** Natural Cast Bronze  
- 12 Volt  
- 100 watt maximum  
- UWL1075: 75W MR16 Lamp (Included)  
- UWL1100: 100W T3 Lamp (Included)  

**HOUSING** — Cast nickel bronze guard, spun stainless steel housing, stainless steel fasteners.  

**BASE** — Cast nickel bronze swivel base.  

**FINISH** — Natural finish.  

**LENS** — Tempered clear convex glass (see below for optional colored lenses).  

**SOCKET** — Bi-Pin (GY6.5).  

**WIRING** — 10-ft. SVO cord for hard wiring to low voltage supply cable.  

**NOTE:** Underwater fixtures are not for use in swimming pools or spas due to exposed wiring.  

ETL, cETL Listed.  

<table>
<thead>
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<th>Catalog No.</th>
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<td>Green Lens</td>
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<tr>
<td>UWRED</td>
<td>Red Lens</td>
<td>UWAMB</td>
<td>Amber Lens</td>
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</tbody>
</table>

**UWL2075/UWL2100**  
**CAST BRONZE**  
**UWL2075-N** Natural Cast Bronze  
**UWL2100-N** Natural Cast Bronze  
- 12 Volt  
- 100 watt maximum  
- UWL2075: 75W MR16 Lamp (Included)  
- UWL2100: 100W T3 Lamp (Included)  

**HOUSING** — Cast nickel bronze guard, spun stainless steel housing, stainless steel fasteners.  

**NICHE** — Stainless steel with cast nickel bronze trim.  

**FINISH** — Natural finish.  

**LENS** — Tempered clear convex glass (see below for optional colored lenses).  

**SOCKET** — Bi-Pin (GY6.5).  

**WIRING** — 10-ft. SVO cord for hard wiring to low voltage supply cable.  

**NOTE:** Underwater fixtures are not for use in swimming pools or spas due to exposed wiring.  

ETL, cETL Listed.  

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<tr>
<td>UWRED</td>
<td>Red Lens</td>
<td>UWAMB</td>
<td>Amber Lens</td>
</tr>
</tbody>
</table>

Max. Aiming Angle (Any Direction): 25°  

Diagram dimensions:  
- 7-7/16" [189mm]  
- 5-1/8" [130mm]  
- 6" [152mm]  
- 5-1/2" [140mm]
**JBH1 JUNCTION BOX**
Two (2) lights, 10.5 cubic inches. Single 3/4” NPT bottom. Two (2) 1/2” or 3/4”, one (1) each end. Please specify factory-machined conduit entryways upon ordering.

**JBH2 JUNCTION BOX**
Four (4) lights, 21.3 cubic inches. Two (2) 1” max. NPT bottom. Four (4) 1/2” or 3/4”, one (1) each end. Please specify factory-machined conduit entryways upon ordering.

**SJH10 JUNCTION BOX**
Two (2) lights, 21 cubic inches. Single 3/4” NPT bottom. Two (2) 1/2” or 3/4”, one (1) each end. Please specify factory-machined conduit entryways upon ordering.

**CCH50**
Machined Naval Brass Cord Seal-Neoprene packing seal, brass friction ring, 1/2” NPT for use with 16-3 STO-WA entry into junction box.

**CCH50F**
Strain Relief, Machined Naval Brass Cord Seal-Neoprene packing seal, brass friction ring, 1/2” NPTx 16-3 cord.

**MA1**
Re-enterable encapsulant for inground installations. Two-part field mixable material in one convenient package. Boxed six (6) per carton.
Fixtures are intended for use in water gardens, fountains or ponds and not for use in swimming pool applications. Underwater lighting techniques may include uplighting above-surface water features, or illuminating the water itself.

**Pond Application—Low Voltage**

1. Remove screw(s) and lens cover and install lamp.
2. Replace lens and cover and reinstall screw(s). Be certain that gasket area is wiped clean and is free of any debris and that screws are tightly fastened (do not overtighten).
3. Submerge fixture in water, making sure that the end of the 10-ft. SVO cord is not submerged. Fixture must be submerged a minimum of 2” below the water surface.
4. Connect dry end of SVO cord to cable run, using silicone-filled wire nuts (MA22 or similar).
5. Power supply (transformer) must be mounted in accordance to NEC specifications.
6. Do not allow the underwater fixture to freeze as this may cause fixture failure.
LOW VOLTAGE
SPECIALTY LIGHTING
A range of innovative specialty lighting products: from a decorative copper sun to rocklytes barbecue lights and patiolytes.

Let your imagination wander with our selection of specialty fixtures, each with its own special function and flourish.
**RL116 ROCKLYTE**

RL116-1 Granite
- 12 Volt
- 50 watt maximum
- MR16 Lamp

**HOUSING** — Constructed of fiberglass reinforced molded concrete and cast aluminum lamp housing with non-ferrous fasteners.

**FINISH** — Natural granite.

**LENS** — Clear tempered glass.

**SOCKET** — Bi-pin type (GU5.3).

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

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**RL336 ROCKLYTE**

RL336-1 Granite
- 12 Volt
- 50 watt maximum
- PAR36 Lamp

RL336-L Granite
- 12 Volt
- 50 watt maximum
- PAR36 Lamp (18 watt WFL PAR36 included)

**HOUSING** — Constructed of fiberglass reinforced molded concrete and silicone lamp holder.

**FINISH** — Natural granite.

**SOCKET** — Double screw terminal.

**WIRING** — Pre-wired with a 3-ft. pigtail and a quick connector for easy hookup to the supply cable.

ETL, cETL Listed.

---

**GASUN COPPER**

GASUN-AC Hand-Crafted Copper
- 12 Volt
- Two (2) 27 watt maximum
- Two (2) 1156 Lamps (included)

**HOUSING** — Hand-formed solid copper perforated to allow projection of light.

**FINISH** — Natural copper will patina with age.

**SOCKET** — Two (2) single contact bayonets (S-8).

**WIRING** — Pre-wired with a 6-ft. pigtail and quick connector for easy hookup to the supply cable.

ETL, cETL Listed.
LL48 STAINLESS STEEL

This portable contemporary stainless fixture comes with a 25-ft. cord and integral transformer, and has an adjustable height and a convenient On/Off switch, ideal for outdoor living spaces.

LL48-SS Stainless Steel
• 120 Volt with integral inline 12 volt transformer
• 20 watt maximum
• T3 Lamp (included)
• Weighted base mount

FIXTURE HEAD – Spun stainless steel housing with stainless steel shroud.
LENS – Clear tempered glass, siliconed into shroud.
GASKET – Silicone channel gasket between housing and shroud.
SWITCH – On/Off switch is protected with a weatherproof silicone covering.
FINISH – Brushed stainless steel finish.
FLEXIBLE NECK – Stainless steel.
ADJUSTABLE STEM – Stainless steel tubing adjusts up to 14”.
BASE – Spun stainless steel cover with concrete-filled composite base.
SOCKET – Bi-pin type (G4).

ELECTRICAL – 25-ft. insulated low voltage cord with integral wall-mounted electronic transformer with grounded plug.
CSA Listed.

4-3/4” [121mm]

LL20 STAINLESS STEEL

Mount this contemporary stainless fixture directly to a grill or table for perfect accent lighting. The heavy-duty clamp combined with the streamlined luminaire and flexible arm will insure years of complimentary outdoor illumination.

LL20-SS Stainless Steel
• 120 Volt with integral inline 12 volt transformer
• 20 watt maximum
• T3 Lamp (included)
• C-clamp mount

FIXTURE HEAD – Spun stainless steel housing with stainless steel shroud.
LENS – Clear tempered glass, siliconed into shroud.
GASKET – Silicone channel gasket between housing and shroud.
SWITCH – On/Off switch is protected with a weatherproof silicone covering.
FINISH – Brushed stainless steel finish.
FLEXIBLE NECK – Stainless steel.
CLAMP – Chrome-plated zinc with stainless steel bolt. The base of the clamp is removable, allowing the top portion to direct mount to any surface.
SOCKET – Bi-pin type (G4).

ELECTRICAL – 25-ft. insulated low voltage cord with integral wall-mounted electronic transformer with grounded plug.
CSA Listed.
LOW VOLTAGE
ACCESSORIES AND PHOTOMETRICS
Just as important as our vast selection of fixtures, HADCO accessories give you all the options you need to finish the job with confidence.

Browse our broad array of transformers and our wide variety of stakes, connectors and mounting canopies. You'll find the right accessories to implement almost any installation you can imagine.
**15 VOLT STANDARD TRANSFORMERS**
- Polyester powdercoated steel case.
- Removable, gasketed hinged door.
- Weatherproof compartment for plug in time clock (T5 or T6, sold separately).
- Plug-in photocell (PC3 or PC15, sold separately).
- 1/2" knockout for photocell mounting.
- Four (4) to eight (8) double knockouts for 1/2" or 3/4" conduit.
- One (1) 1-1/2" conduit inlet.
- Hinged bottom plate.
- Large wiring compartment.
- Large terminal blocks to accommodate up to four (4) #10 wires.
- Plug-in photo cell outlet.
- Epoxy encapsulated toroidal transformer with built-in primary thermal protection.
- 12V, 13V, 14V, and 15V output taps.
- Magnetic circuit breaker for each 300w secondary circuit.
- 6-ft. grounded cord and plug.
- Indoor/Outdoor-UL and cUL listed.
- Ten-year warranty.

**15 VOLT STAINLESS STEEL TRANSFORMERS**
- 304 brushed stainless steel case.
- Removable, gasketed hinged door.
- Weatherproof compartment for plug in time clock (T5 or T6, sold separately).
- Plug-in photocell (PC3 or PC15, sold separately).
- 1/2" knockout for photocell mounting.
- Four (4) to eight (8) double knockouts for 1/2" or 3/4" conduit.
- One (1) 1-1/2" conduit inlet.
- Hinged bottom plate.
- Large wiring compartment.
- Large terminal blocks to accommodate up to four (4) #10 wires.
- Plug-in photo cell outlet.
- Epoxy encapsulated toroidal transformer with built-in primary thermal protection.
- 12V, 13V, 14V, and 15V output taps.
- Magnetic circuit breaker for each 300w secondary circuit.
- 6-ft. grounded cord and plug.
- Limited lifetime warranty.

**HARDWIRE TRANSFORMERS**
- 304 stainless steel case.
- Lockable, captive door.
- Four (4) 1/2" knockouts, two (2) on each side for line voltage wiring.
- Large wiring compartment.
- Shielding between primary and secondary circuits.
- Photo cell compatible (PC1 sold separately).
- Epoxy encapsulated core and coil transformer with built-in primary thermal protection.
- Hardwire 11V, 12V, and 1 3V secondary taps.
- Magnetic circuit breaker for each 300w secondary circuit.
- 6-ft. grounded cord and plug.
- Indoor/Outdoor-UL and cUL listed.
- Limited lifetime warranty.

**22 VOLT STANDARD TRANSFORMERS**
- Polyester powdercoated steel case.
- Removable door.
- Weatherproof compartment for plug in time clock (T5 or T6 sold separately).
- Plug-in photocell (PC3 or PC15 sold separately).
- 1/2" knockout for photocell mounting.
- Four (4) to eight (8) double knockouts for 1/2" or 3/4" conduit.
- One (1) 1-1/2" conduit inlet.
- Hinged bottom plate.
- Large wiring compartment.
- Large terminal blocks to accommodate up to four (4) #10 wires.
- Plug-in photo cell outlet.
- Plug-in time clock outlet (X10 compatible).
- Epoxy encapsulated toroidal transformer with built-in primary thermal protection.
- 12V, 13V, 14V, 15V, 17V, 20V, and 22V output taps.
- Magnetic circuit breaker for each 300w secondary circuit.
- 6-ft. grounded cord and plug.
- Indoor/Outdoor ETL, cETL Listed.
- Limited lifetime warranty.

**22 VOLT STAINLESS TRANSFORMERS**
- 304 stainless steel case.
- Removable door.
- Weatherproof compartment for plug in time clock (T5 or T6 sold separately).
- Plug-in photocell (PC3 or PC15 sold separately).
- 1/2" knockout for photocell mounting.
- Four (4) to eight (8) double knockouts for 1/2" or 3/4" conduit.
- One (1) 1-1/2" conduit inlet.
- Hinged bottom plate.
- Large wiring compartment.
- Large terminal blocks to accommodate up to four (4) #10 wires.
- Plug-in photo cell outlet.
- Plug-in time clock outlet (X10 compatible).
- Epoxy encapsulated toroidal transformer with built-in primary thermal protection.
- 12V, 13V, 14V, 15V, 17V, 20V, and 22V output taps.
- Magnetic circuit breaker for each 300w secondary circuit.
- 6-ft. grounded cord and plug.
- Indoor/Outdoor ETL, cETL Listed.
- Limited lifetime warranty.

**INGROUND TRANSFORMERS**
- Fiberglass reinforced composite box with composite lid and silicone gasketing.
- Separate wiring compartment with two (2) 3/4" inlets.
- Epoxy encapsulated toroidal transformer with built-in primary thermal protection.
- Magnetic circuit breaker for each 300w secondary circuit.
- Shielding between primary and secondary circuits.
- 12V, 13V, 14V, and 15V output taps.
- Multiple 1/2" knockouts on bottom of box.
- Waterproof connectors for low voltage cable outlets. One (1) supplied with 300w unit, two (2) supplied with 600w unit.
- Potting compound supplied for line voltage wiring compartment.
- ETL, cETL Listed.
- Ten-year warranty.
## Transformers

<table>
<thead>
<tr>
<th>Cat. Number</th>
<th>Description</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>PC1</th>
<th>PC3</th>
<th>PC15</th>
<th>T5</th>
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<td>1200VA HO Multitap, Painted</td>
<td>17-1/4&quot;</td>
<td>8&quot;</td>
<td>6-3/4&quot;</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>TC1583-22</td>
<td>1500VA HO Multitap, Painted</td>
<td>17-1/4&quot;</td>
<td>8&quot;</td>
<td>6-3/4&quot;</td>
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<td>✓</td>
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<td>✓</td>
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<tr>
<td>TSS383-22</td>
<td>300VA HO Multitap, Stainless</td>
<td>11-3/8&quot;</td>
<td>6-3/8&quot;</td>
<td>5-3/8&quot;</td>
<td>✓</td>
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<tr>
<td>TSS683-22</td>
<td>600VA HO Multitap, Stainless</td>
<td>17&quot;</td>
<td>5-1/4&quot;</td>
<td>5-1/4&quot;</td>
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<tr>
<td>TSS983-22</td>
<td>900VA HO Multitap, Stainless</td>
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<td>8&quot;</td>
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<td>✓</td>
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<tr>
<td>TSS1283-22</td>
<td>1200VA HO Multitap, Stainless</td>
<td>17-1/4&quot;</td>
<td>8&quot;</td>
<td>6-3/4&quot;</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>TSS1583-22</td>
<td>1500VA HO Multitap, Stainless</td>
<td>17-1/4&quot;</td>
<td>8&quot;</td>
<td>6-3/4&quot;</td>
<td>✓</td>
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<tr>
<td>TB100-12</td>
<td>100VA Cast Iron Inground, 12V (not pictured)</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>5&quot;</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>TBC303-15</td>
<td>300VA Inground Multitap, one 1/2&quot; Knockout</td>
<td>9-5/8&quot;</td>
<td>dia.</td>
<td>12-7/8&quot;</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>TBC603-15</td>
<td>600VA Inground Multitap, two 1/2&quot; Knockouts</td>
<td>10-5/8&quot;</td>
<td>dia.</td>
<td>12-7/8&quot;</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>✓</td>
</tr>
</tbody>
</table>

*Accessory compatibility is model specific. Please see accessory descriptions below.

## Transformer Accessories:

**T5**
Plug-in analog transformer time clock.

**T6**
Plug-in digital transformer time clock with battery back-up.

**PC1**
Hardwire photo cell. Finger type, adjustable photo control. 1/2" [13mm] NPS for mounting.

**PC3**
Plug-in photo cell, 3" [78mm] lead for direct mount to transformer housing.

**PC15**
Plug-in photo cell, 15-ft. [46.8m] lead for remote mount.
Connectors

**LVC3**
Low Voltage Quick Connector with positive lock screw design. Heavier prongs for a more positive connection with base ensures proper fit for single circuit. Boxed twelve (12) per carton.

**LVC4**
Low Voltage “T” connector for branching off existing low voltage cable for additional runs. Boxed twelve (12) per carton.

**MA22**
Silicone-filled wire connectors. Necessary to protect splicings from moisture and oxidation. Handles up to 10 gauge wire. Boxed twenty-five (25) per carton.

Stakes

**S1**

**S6**

**S7**

**S7N**

**S8**

**S8N**
Two-piece low voltage mounting stake with brass cap. PVC stake 1-3/8” [35mm] O.D. x 15” [375mm] long with die-cast brass removable 1/2” [13mm] NPS fitter. Boxed twelve (12) per carton.

**TS375-12**
Black 19” [494mm] PVC Mounting Stake with integral 75w Electronic Transformer. 3” [78mm] OD ABS cap with threaded 1/2” [13mm] NPS hub. To be used with 12 volt fixtures (sold separately) and 120 volt power source.
### Mounting Canopies

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC1</td>
<td>Low voltage mounting canopy. Cast aluminum with 1/2” [13mm] NPS inlet. Suitable for trees, soffit, wall or deck mounting of many low voltage fixtures. 2-7/8” [73mm] round. Boxed six (6) per carton.</td>
</tr>
<tr>
<td>MC1N</td>
<td>Low voltage mounting canopy. Cast brass with 1/2” [13mm] NPS inlet. Suitable for trees, soffit, wall or deck mounting of many low voltage fixtures. 2-7/8” [73mm] round. Boxed six (6) per carton.</td>
</tr>
<tr>
<td>M0040</td>
<td>Low voltage mounting canopy for single fixture. 5” [127mm] square.</td>
</tr>
<tr>
<td>M0041</td>
<td>Low voltage mounting canopy for two (2) fixtures. 5” [127mm] square.</td>
</tr>
</tbody>
</table>

### Tree Mount Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM1H</td>
<td>Low voltage tree mount canopy. Bronze finish. Combination lag screws with hex nuts included.</td>
</tr>
<tr>
<td>TMS10</td>
<td>Nylon Tree Strap-Black – A non-intrusive way of mounting line or low voltage bulb to a tree. 10-ft. [3.05m] field-cut to length. Nylon strap [7/8” wide] with high strength, durable ABS adjustable fastener. 500 lbs strength test. Use with: TMC2H (line voltage) TM1H (low voltage).</td>
</tr>
<tr>
<td>MF1</td>
<td>Pack of twelve (12) combination galvanized lag screws with hex nuts for attaching canopies and ballast boxes in trees.</td>
</tr>
</tbody>
</table>

### Wire

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCW100-12</td>
<td>Low Voltage Cable – Single Circuit 12V, 2 conductor, 12 gauge, 100-ft.</td>
</tr>
<tr>
<td>SCW500-12</td>
<td>Low Voltage Cable – Single Circuit 12V, 2 conductor, 12 gauge, 500-ft.</td>
</tr>
<tr>
<td>SCW500-10</td>
<td>Low Voltage Cable – Single Circuit 12V, 2 conductor, 10 gauge, 500-ft.</td>
</tr>
</tbody>
</table>

### Miscellaneous

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA2</td>
<td>Marker flags. Vinyl 3” [76mm] x 5” [127mm] on 18” [457mm] stem with area for writing model numbers and lamp numbers. Boxed fifty (50) per carton.</td>
</tr>
<tr>
<td>MA4</td>
<td>Corrosion preventive compound. Two-ounce tube. Specially formulated non-conductive sealant and corrosion preventative. For use on sockets and electrical contacts. Boxed six (6) per carton.</td>
</tr>
</tbody>
</table>
PHOTOMETRIC DATA

20W MR11
Average Life, 2000 Hrs.

35W MR11
Average Life, 2000 Hrs.

20W MR16
Average Life, 2000 Hrs.

35W MR16
Average Life, 3000 Hrs.

42W MR16
Average Life, 3000 Hrs.

50W MR16
Average Life, 3000 Hrs.

75W MR16
Average Life, 3500 Hrs.

18W PAR36 (Halogen)
Average Life, 4000 Hrs.

36W PAR36 CAP (Halogen)
Average Life, 4000 Hrs.

50W PAR36
Average Life, 2500 Hrs.
These pages show the versatility of HACDO lighting tools in bringing outdoor landscapes to life. The images capture our products doing what they do best – blending into design and making it shine.

Pathlytes safely lead the way to the main entrance, while bullytes create shadow interest on an otherwise plain brick wall.

Skilled application of underwater lighting adds enchantment to this fountain, framed in the lush texture of uplit foliage.

The geometry of this landscape design takes on an additional glow with focused inground lighting.

This installation demonstrates the depth and texture uplighting can bring to a night landscape.

Uplighting this home lends dramatic dimension and allows its simple, strong lines to shine through dusk and beyond.

Combined spotlighting, uplighting and underwater lighting give each element of this landscape just enough definition to harmonize into a rich, yet unified scene.
An otherwise plain structure takes on new life as a canvas for shadowing effects … while at the same time, benefiting from the added security.

With this holiday display, the city made creative use of accent lights to enhance the festive atmosphere.

Stately columns are ideal subjects to spotlight, downlight, and paint with light … especially in a courtyard where a gentle rain gives light more room to play.

Walkway lighting welcomes guests into a lovely scene without disrupting the atmosphere with unwanted glare.

This inground installation grazes the texture of the masonry work, while at the same time guiding the eye upward toward the subject.

This backyard landscape is just as safe, secure and inviting after dark thanks to well-placed spread, walkway, and silhouette lighting.
Beautiful outdoor environments become warm and welcoming after dark with a creative blend of fixtures and techniques. Note that, as in all well-crafted lighting installations, darkness is not eradicated; rather, it is used as a defining tool.

Another view of the same deck/patio area shows how vertical post-mounted downlights punctuate the lines of the patio … while at the same time revealing the potentially hazardous dropoff.

In another corner of the pool area, uplighting the natural beauty and texture of this stately tree makes it a source of visual warmth and an important anchor point in the landscape design.
The dramatic artistry of this landscape loses none of its beauty to the night, thanks to a skilled application of various fixtures and techniques. Note the depth and intrigue created by accentuating different layers of this environment.

Closer inspection of the same home reveals how, with properly controlled lighting, this landscape designer gently directs the viewer’s attention to the most noteworthy features of the scene.

From front landscape to back, the home transitions from formal to casual. Spread lighting, uplighting and spotlighting frame the enchanting illuminated water features… while walkway and spread lighting show the way in.
For ultimate flexibility in large-scale or commercial projects, count on HADCO accent products to give you all the options.

We engineer our fixtures to create possibilities, not to limit them. That’s why our accent lights can accommodate incandescent, fluorescent or HID lamping.

You can also rely on HADCO to offer the control you need … from integral stepdown transformers to our variety of shroud styles. And our selection of remote ballasts gives you the freedom to place our fixtures virtually anywhere in your design.
### EW1-N BRASS

EW1-N Natural Brass
- 120 Volt with integral transformer
- 10 watt maximum
- T3 Lamp (included)

**HOUSING** – Die-cast brass body with fully-adjustable yoke, brass canopy with brass stem and screws. Includes 30° flood aluminum reflector.

**FINISH** – Natural brass.

**LENS** – Clear tempered glass.

**SOCKET** – Bi-pin type (G4).

**ELECTRICAL** – Stepdown transformer reduces line voltage to 12 volts. Transformer is potted/encapsulated and features thermal overload protection.

**WIRING** – Incandescent pre-wired with high temperature #18 wire.

ETL, cETL Listed.

### BT711 ALUMINUM

**BT711-A Black**

**BT711-H Bronze**

- 120 Volt
- 35 watt maximum (MR11)
- 20 watt maximum (T3 halogen)
- 1/2” NPS fitter

**HOUSING** – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – Fully-rotatable, gasketed, cast aluminum.

**FINISH** – Black, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.

**LENS** – Clear tempered glass.

**SOCKET** – Ceramic bi-pin (G4).

**ELECTRICAL** – Stepdown transformer reduces line voltage to 12 volts. Transformer is potted/encapsulated and features thermal overload protection. Can be used with energy-efficient halogen lamps.

**WIRING** – Pre-wired with #18 AWG black, white and ground.

ETL, cETL Listed.

### BT5016 ALUMINUM

**BT5016-A Black**

**BT5016-H Bronze**

- 120 Volt
- MR16 Lamp
- 1/2” NPS fitter

**HOUSING** – Die-cast marine-grade aluminum with fully-adjustable swivel arm, with vibration-proof locking teeth.

**SHROUD** – Fully-rotatable, gasketed cast marine-grade aluminum.

**FINISH** – Black, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.

**LENS** – Clear tempered glass affixed at 10° angle for natural cleaning.

**SOCKET** – Ceramic bi-pin (GU5.3).

**ELECTRICAL** – Stepdown transformer reduces line voltage to 12 volts. Transformer is potted/encapsulated and features thermal overload protection. Can be used with energy-efficient halogen lamp.

**WIRING** – Pre-wired with #18 AWG black, white and ground.

ETL, cETL Listed.

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<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Description</th>
<th>Catalog No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>ICG16</td>
<td>Louver</td>
<td>ISL16</td>
<td>Spread Lens</td>
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<tr>
<td>IBL116</td>
<td>Ice Blue Lens</td>
<td>IAS16</td>
<td>Linear Spread Lens</td>
</tr>
</tbody>
</table>

---

111
BT1 ALUMINUM (LONG SHROUD)
BT1-AL Black        BT1-HL Bronze

• 120 Volt
• 75 watt maximum
• MR16 Lamp
• 1/2” NPS fitter
• Integral stepdown transformer

HOUSING – Die-cast aluminum with fully-adjustable swivel arm, with vibration-proof locking teeth.

SHROUD – Fully-rotatable, gasketed, cast aluminum.

FINISH – Black or bronze thermoset powdercoat.

LENS – Clear; tempered glass.

SOCKET – Ceramic bi-pin (GU5.3).

ELECTRICAL – Stepdown transformer reduces line voltage to 12 volts. Transformer is potted/encapsulated and features thermal overload protection. Can be used with energy-efficient halogen lamp.

WIRING – Pre-wired with #18 AWG black, white and ground.

ETL, cETL Listed.

---

BT1 ALUMINUM (SHORT SHROUD)
BT1-AS Black        BT1-HS Bronze

• 120 Volt
• 75 watt maximum
• MR16 Lamp
• 1/2” NPS fitter
• Integral stepdown transformer

HOUSING – Die-cast aluminum with fully-adjustable swivel arm, with vibration-proof locking teeth.

SHROUD – Fully-rotatable, gasketed, cast aluminum.

FINISH – Black or bronze thermoset powdercoat.

LENS – Clear; tempered glass.

SOCKET – Ceramic bi-pin (GU5.3).

ELECTRICAL – Stepdown transformer reduces line voltage to 12 volts. Transformer is potted/encapsulated and features thermal overload protection. Can be used with energy-efficient halogen lamp.

WIRING – Pre-wired with #18 AWG black, white and ground.

ETL, cETL Listed.
**B1 ALUMINUM**

- B1-A Black
- B1-T Speckled Stone

- 120 Volt
- PAR/R20 Lamp (R & HID lamp requires shroud)
- 1/2” NPS fitter

**BALLAST** – Remote ballast housing available for HID models. Please see remote ballast ordering guide on page 121.

**HOUSING** – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUDS** – Die-cast aluminum, provided with lens and silicone O-ring. (See ordering chart below.)

**FINISH** – Black, hand-rubbed verde antiqued over black thermostet powdercoat, bronze, speckled stone or sienna thermostet powdercoat.

**LENS** – Provided with optional shrouds only.

**SOCKET** – High temperature porcelain medium base.

**WIRING** – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

---

**B1 BRASS**

- B1-NL Natural Brass
- B1-OBL Oiled Brass

- 120 Volt
- 100 watt maximum
- PAR20 or R20 Lamp
- 1/2” NPS fitter
- Long shroud included

**BALLAST** – Remote ballast housing available for HID models. Please see remote ballast ordering guide on page 121.

**HOUSING** – Die-cast brass with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – Fully-rotateable, gasketed, die-cast brass.

**FINISH** – Natural brass or oiled brass.

**LENS** – Flat, clear tempered glass.

**SOCKET** – High temperature porcelain medium base.

**WIRING** – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

---

**Ordering Guide for Optional Shrouds**

<table>
<thead>
<tr>
<th>Size</th>
<th>Finish</th>
<th>Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Small</td>
<td>(A) Black</td>
<td>(B) Convex Ice Blue</td>
</tr>
<tr>
<td></td>
<td>(G) Verde</td>
<td>(C) Convex Clear</td>
</tr>
<tr>
<td></td>
<td>(H) Bronze</td>
<td>(O) Flat/Clear</td>
</tr>
<tr>
<td></td>
<td>(T) Speckled Stone</td>
<td>(Specify)</td>
</tr>
<tr>
<td></td>
<td>(U) Sienna</td>
<td>(Specify)</td>
</tr>
</tbody>
</table>

**Catalog No.**

- ML1 Louver

---

**Dimensions**

- 8-3/16” [208mm]
- 3-7/8” [98mm]
- 8-1/2” [216mm]
- 5-7/16” [138mm]
- 2-5/16” [59mm]
- 6-5/16” [160mm]
BU1 COMPOSITE
BU1-A Black  BU1-G Verde
BU1-H Bronze
• 120 Volt
• 100 watt maximum
• PAR/R20 Lamp (R & HID lamp requires shroud)
• 1/2" NPS fitter
• Shrouds optional
BALLAST – Remote ballast housing available for HID models. Please see remote ballast ordering guide on page 121.
HOUSING – One-piece injection molded ULTEM® High Performance Polymer with fully-adjustable swivel arm with vibration-proof locking teeth.
FINISH – Color impregnated material in black, hand-rubbed verde antiqued over black, or bronze.
LENS – Provided with optional shrouds only.
SOCKET – High temperature porcelain medium base.
WIRING – Pre-wired with high temperature #18 wire.
ETL, cETL Listed.

ORDERING GUIDE FOR OPTIONAL SHROUDS

<table>
<thead>
<tr>
<th>Size</th>
<th>Finish</th>
<th>Lens Shroud</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Small (BU1)</td>
<td>(A) Black</td>
<td>(B) Convex Ice Blue</td>
</tr>
<tr>
<td></td>
<td>(G) Verde</td>
<td>(L) Long</td>
</tr>
<tr>
<td></td>
<td>(H) Bronze</td>
<td>(O) Short</td>
</tr>
<tr>
<td></td>
<td>(Specify)</td>
<td>(Specify)</td>
</tr>
</tbody>
</table>

ML1  Louver

ML3  Louver

BU1 COMPOSITE (continued)

B3 ALUMINUM
B3-A Black  B3-G Verde
B3-H Bronze
• 120 Volt
• 100 watt maximum
• PAR/R30 Lamps
• 1/2" NPS fitter
• Long shroud included
BALLAST – Remote ballast housing available for HID models. Please see remote ballast ordering guide on page 121.
HOUSING – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.
SHROUD – Fully-rotatable, gasketed, die-cast aluminum.
FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.
LENS – Clear tempered glass permanently affixed at 10º angle for natural cleaning.
SOCKET – High temperature porcelain medium base.
WIRING – Pre-wired with high temperature #18 wire.
ETL, cETL Listed.

ORDERING GUIDE FOR OPTIONAL SHROUDS

<table>
<thead>
<tr>
<th>catalog no.</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML3</td>
<td>Louver</td>
</tr>
</tbody>
</table>
BU3 COMPOSITE

BU3-A Black
BU3-G Verde
BU3-H Bronze

- 120 Volt
- 100 watt maximum
- PAR/R30 Lamps
- 1/2” NPS fitter
- Long shroud included

BALLAST – Remote ballast housing available for HID models. Please see remote ballast ordering guide on page 12.

HOUSING – One-piece injection molded ULTEM® High Performance Polymer with fully-adjustable swivel arm with vibration-proof locking teeth.

SHROUD – Fully-rotatable, gasketed, injection molded ULTEM® High Performance Polymer.

FINISH – Color impregnated material in black, hand-rubbed verde antiqued over black, or bronze.

LENS – Clear tempered glass permanently affixed at 10° angle for natural cleaning.

SOCKET – High temperature porcelain medium base.

WIRING – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

<table>
<thead>
<tr>
<th>catalog no.</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML3</td>
<td>Louver</td>
</tr>
</tbody>
</table>

1020 ALUMINUM

1020-H Bronze

- 120 Volt
- 150 watt maximum
- PAR38 Lamp
- 1/2” NPS fitter

HOUSING – Cast aluminum construction with fully adjustable swivel arm with vibration-proof locking teeth.

FINISH – Bronze thermoset powdercoat finish.

SOCKET – Porcelain medium base.

WIRING – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

7-3/16" [183mm] 6" [152mm]

3-7/16" [187mm]
**B4 BRASS**

**Non Reflector Models**
- B4-NL Natural Brass
- B4-OBL Oiled Brass

**HID Reflector Models**
- BN4-NL Natural Brass, Narrow Reflector
- BN4-OBL Oiled Brass, Narrow Reflector
- BW4-NL Natural Brass, Wide Reflector
- BW4-OBL Oiled Brass, Wide Reflector

- 300 watt maximum incandescent
- 175 watt maximum HID
- PAR38/R40 Lamp, non reflector model
- E17 Lamp, reflector models
- 1/2” NPS fitter
- Long shroud

**BALLAST** – Remote ballast housing available for HID models. Please see remote ballast ordering guide on page 121.

**HOUSING** – Die-cast brass with fully adjustable swivel arm with vibration-proof locking teeth.

**SHPROUD** – Fully-rotatable with silicone O-ring gasket, die-cast brass.

**FINISH** – Natural brass or oiled brass.

**LENS** – BN4, BW4, flat clear tempered glass.

**SOCKET** – Porcelain medium base.

**WIRING** – Pre-wired with high temperature #18 wire.

*ETL, cETL Listed.

*175w HID cannot be oriented in a straight downward vertical position.

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**PHOTOMETRIC INFORMATION**

<table>
<thead>
<tr>
<th>Longitudinal Distance (ft)</th>
<th>Transverse Distance (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>20</td>
<td>40</td>
</tr>
</tbody>
</table>

**catalog no.**
- ML4

**description**
- Louver

---

**Photometric Information Diagrams**
BULLYTES

B4 ALUMINUM (NO SHROUD)

<table>
<thead>
<tr>
<th>Incandescent Models</th>
<th>HID Reflector Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>B4-A Black</td>
<td>BN4-AL Black, Long Shroud, Narrow Reflector</td>
</tr>
<tr>
<td>B4-G Verde</td>
<td>BN4-HL Bronze, Long Shroud, Narrow Reflector</td>
</tr>
<tr>
<td>B4-H Bronze</td>
<td>BN4-AS Black, Short Shroud, Narrow Reflector</td>
</tr>
<tr>
<td></td>
<td>BN4-HS Bronze, Long Shroud, Narrow Reflector</td>
</tr>
<tr>
<td></td>
<td>BW4-AL Black, Long Shroud, Wide Reflector</td>
</tr>
<tr>
<td></td>
<td>BW4-HL Bronze, Long Shroud, Wide Reflector</td>
</tr>
<tr>
<td></td>
<td>BW4-AS Black, Short Shroud, Wide Reflector</td>
</tr>
<tr>
<td></td>
<td>BW4-HS Bronze, Short Shroud, Wide Reflector</td>
</tr>
</tbody>
</table>

- 300 watt maximum incandescent (R40 Lamp)
- 175 watt maximum HID*
- PAR38/R40 Lamp (HID or R Lamp, must order shroud, below)
- E17 Lamp, reflector models
- 1/2" NPS fitter
- Shrouds optional

BALLAST – Remote ballasts required for HID lamps. Please see remote ballast ordering guide on page 121.

HOUSING – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

SHROUD – Fully-rotatable with silicone O-ring gasket, die-cast aluminum. B4, shroud is optional (see ordering information below): BN4, BW4, shroud included.

FINISH – Black thermoset powdercoat, hand-rubbed verde antiqued over black thermoset powdercoat, or bronze thermoset powdercoat.

LENS – BN4, BW4 clear convex tempered glass included with shroud.

SOCKET – Porcelain medium base.

WIRING – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

*175w HID cannot be oriented in a straight downward vertical position.

### ORDERING GUIDE FOR OPTIONAL SHROUDS

<table>
<thead>
<tr>
<th>Size</th>
<th>Finish</th>
<th>Shroud</th>
<th>Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4) Large (BH)</td>
<td>(A) Black</td>
<td>(L) Long</td>
<td>(B) Convex Ice Blue</td>
</tr>
<tr>
<td></td>
<td>(G) Verde</td>
<td>(S) Short</td>
<td>(C) Convex Clear</td>
</tr>
<tr>
<td></td>
<td>(H) Bronze</td>
<td></td>
<td>(O) Flat/Clear</td>
</tr>
</tbody>
</table>

Transverse Distance (ft.)

<table>
<thead>
<tr>
<th>Longitudinal Distance (ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-3/16&quot; [259mm]</td>
</tr>
<tr>
<td>8-9/16&quot; [218mm]</td>
</tr>
<tr>
<td>2-5/16&quot; [59mm]</td>
</tr>
</tbody>
</table>

16-1/2" [419mm]

6-1/4" [159mm]
B4 ALUMINUM (LONG SHROUD)

Fluorescent Models
BF432-AL Black, Long Shroud, 32W CFL
BF432-HL Bronze, Long Shroud, 32W CFL
BF432-AS Black, Short Shroud, 32W CFL
BF432-HS Bronze, Short Shroud, 32W CFL
BF426-AL Black, Long Shroud, 26W CFL
BF426-HL Bronze, Long Shroud, 26W CFL
BF426-AS Black, Short Shroud, 26W CFL
BF426-HS Bronze, Short Shroud, 26W CFL
BF418-AL Black, Long Shroud, 18W CFL
BF418-HL Bronze, Long Shroud, 18W CFL
BF418-AS Black, Short Shroud, 18W CFL
BF418-HS Bronze, Short Shroud, 18W CFL

- 32 watt maximum
- Compact fluorescent lamp
- 1/2” NPS fitter
- Long or short shroud

HOUSING – Die-cast aluminum with fully-adjustable swivel arm with vibration-proof locking teeth.

SHROUD – Fully-rotatable with silicone O-ring gasket, die-cast aluminum.

FINISH – Black or bronze thermoset powdercoat.

LENS – Clear convex tempered glass included with shroud.

SOCKET – 32 and 26w: GX24q-3; 18w: GX24q-2

REFLECTOR – Spun aluminum flood reflector.

BALLAST – Integral electronic fluorescent ballast, 120 volt feed. Min. -20°C start temp. Contact factory for other voltage options.

WIRING – Pre-wired with high temperature #18 wire. ETL, cETL Listed.

---

Photometric Information

BF432 Canopy, 10’ Setback
BF432 Wall, 10’ Setback, 60° tilt

---

Longitudinal Distance (ft.)

Transverse Distance (ft.)
BU4 COMPOSITE (LONG SHROUD)  BU4 COMPOSITE (NO SHROUD)

**Incandescent Models**
- BU4-A Black
- BU4-G Verde
- BU4-H Bronze

**HID Reflector Models**
- BUN4-AL Black, Long Shroud, Narrow Reflector
- BUN4-HL Bronze, Long Shroud, Narrow Reflector
- BUN4-AS Black, Short Shroud, Narrow Reflector
- BUN4-HS Bronze, Short Shroud, Narrow Reflector
- BUV4-AL Black, Long Shroud, Wide Reflector
- BUV4-HL Bronze, Long Shroud, Wide Reflector
- BUV4-AS Black, Short Shroud, Wide Reflector
- BUV4-HS Bronze, Short Shroud, Wide Reflector

- 175 watt maximum incandescent
- 175 watt maximum HID*
- PAR38/R40 Lamp (HID or R Lamp, must order shroud, below)
- E17 Lamp, reflector models
- 1/2" NPS fitter
- Shrouds optional. See below.

**BALLAST** – Remote ballasts required for HID lamps. Please see remote ballast ordering guide on page 121.

**HOUSING** – One-piece injection molded ULTEM® High Performance Polymer, with fully-adjustable swivel arm with vibration-proof locking teeth.

**SHROUD** – One-piece injection molded ULTEM® High Performance Polymer with silicone O-ring gasket. Lens is siliconed into shroud. BU4, shroud optional (see ordering information below); BUN4, BUW4, shroud included.

**FINISH** – Color impregnated material in black or bronze, hand-rubbed Verde over black.

**LENS** – BUN4, BUW4 clear convex tempered glass included with shroud.

**SOCKET** – Porcelain medium base.

**WIRING** – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

*175w HID cannot be oriented in a straight downward vertical position.

### Ordering Guide for Optional Shrouds

<table>
<thead>
<tr>
<th>Finish</th>
<th>Shroud</th>
<th>Lens</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A) Black</td>
<td>(S) Short</td>
<td>(B) Convex Ice Blue</td>
</tr>
<tr>
<td>(G) Verde</td>
<td>(L) Long</td>
<td>(C) Convex Clear</td>
</tr>
<tr>
<td>(H) Bronze</td>
<td>(Specify)</td>
<td>(O) Flat/Clear</td>
</tr>
</tbody>
</table>

**PHOTOMETRIC INFORMATION**

- BW4-175H Canopy, 30' Setback
- BW4-175H Wall, 10' Setback, 60° tilt
- BN4-175H Canopy, 30' Setback
- BN4-175H Wall, 10' Setback, 60° tilt

**CATALOG NO. DESCRIPTION**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML4</td>
<td>Lower</td>
</tr>
</tbody>
</table>
BU4 COMPOSITE (LONG SHROUD)

Fluorescent Models

BUF432-AL    Black, Long Shroud, 32W CFL
BUF432-HL    Bronze, Long Shroud, 32W CFL
BUF432-AS    Black, Short Shroud, 32W CFL
BUF432-HS    Bronze, Short Shroud, 32W CFL
BUF426-AL    Black, Long Shroud, 26W CFL
BUF426-HL    Bronze, Long Shroud, 26W CFL
BUF426-AS    Black, Short Shroud, 26W CFL
BUF426-HS    Bronze, Short Shroud, 26W CFL
BUF418-AL    Black, Long Shroud, 18W CFL
BUF418-HL    Bronze, Long Shroud, 18W CFL
BUF418-AS    Black, Short Shroud, 18W CFL
BUF418-HS    Bronze, Short Shroud, 18W CFL

• 32 watt maximum
• Compact fluorescent lamp
• 1/2" NPS fitter
• Long or short shroud

HOUSING — One-piece injection molded Ultem® High Performance Polymer with fully-adjustable swivel arm with vibration-proof locking teeth.

SHROUD — One-piece injection molded Ultem® High Performance Polymer with silicone O-ring gasket. Lens is siliconed into shroud.

FINISH — Color impregnated material in black or bronze.

LENS — Clear convex tempered glass included with shroud.

SOCKET — 26 and 32w: GX24q-3; 18w: GX24q-2

REFLECTOR — Spun aluminum flood reflector.

BALLAST — Integral electronic fluorescent ballast, 120 volt feed. Min. -20°C start temp. Contact factory for other voltage options.

WIRING — Pre-wired with high temperature #18 wire.

ETL, cETL Listed.
ABH ABOVE GROUND

ELECTRICAL – 120V standard. Contact factory for other voltages.
Long range ignitor standard. Core and coil ballast encapsulated for moisture resistance.

HOUSING – Above ground: Zinc-plated steel thermoset powder-coated black with stainless steel screws

INSTALLATION – Housing must be mounted at least one (1) foot above ground level.

CERTIFICATION – ETL/cETL Listed to US and Canadian safety standards for wet locations.

IBH INGROUND

ELECTRICAL – 120V standard. Contact factory for other voltages.
Long range ignitor standard. Core and coil ballast encapsulated for moisture resistance.

HOUSING – Fiberglass reinforced composite with composite lid, silicone gasket and stainless screws.

INSTALLATION – Bury with minimum 3” gravel around housing for drainage. Seal conduit entry with duct seal and potting compound. Lid must be visible for access.

CERTIFICATION – ETL/cETL Listed to US and Canadian safety standards for wet locations.

---

## Metal Halide HID Ballast Boxes

<table>
<thead>
<tr>
<th>Model Number</th>
<th>(Dimensions)</th>
<th>Description to Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABH351</td>
<td>6-1/4”W, 10-3/8”H</td>
<td>(1) 35w MH 15 ft.</td>
</tr>
<tr>
<td>ABH352</td>
<td>6-1/4”W, 12-1/2”H</td>
<td>(2) 35w MH 15 ft.</td>
</tr>
<tr>
<td>ABH501</td>
<td>6-1/4”W, 10-3/8”H</td>
<td>(1) 50w MH 50 ft.</td>
</tr>
<tr>
<td>ABH502</td>
<td>6-1/4”W, 12-1/2”H</td>
<td>(2) 50w MH 50 ft.</td>
</tr>
<tr>
<td>ABH701</td>
<td>6-1/4”W, 10-3/8”H</td>
<td>(1) 70w MH 50 ft.</td>
</tr>
<tr>
<td>ABH702</td>
<td>6-1/4”W, 12-1/2”H</td>
<td>(2) 70w MH 50 ft.</td>
</tr>
<tr>
<td>ABH1001</td>
<td>6-1/4”W, 10-3/8”H</td>
<td>(1) 100w MH 50 ft.</td>
</tr>
<tr>
<td>ABH1002</td>
<td>6-1/4”W, 12-1/2”H</td>
<td>(2) 100w MH 50 ft.</td>
</tr>
<tr>
<td>ABH1501</td>
<td>6-1/4”W, 10-3/8”H</td>
<td>(1) 150w MH 50 ft.</td>
</tr>
<tr>
<td>ABH1502</td>
<td>6-1/4”W, 12-1/2”H</td>
<td>(2) 150w MH 50 ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model Number</th>
<th>(Dimensions)</th>
<th>Description to Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBH351</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(1) 35w MH 15 ft.</td>
</tr>
<tr>
<td>IBH352</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(2) 35w MH 15 ft.</td>
</tr>
<tr>
<td>IBH501</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(1) 50w MH 50 ft.</td>
</tr>
<tr>
<td>IBH502</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(2) 50w MH 50 ft.</td>
</tr>
<tr>
<td>IBH701</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(1) 70w MH 50 ft.</td>
</tr>
<tr>
<td>IBH702</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(2) 70w MH 50 ft.</td>
</tr>
<tr>
<td>IBH1001</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(1) 100w MH 50 ft.</td>
</tr>
<tr>
<td>IBH1002</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(2) 100w MH 50 ft.</td>
</tr>
<tr>
<td>IBH1501</td>
<td>9-5/8” Dia., 12-1/4”H</td>
<td>(1) 150w MH 50 ft.</td>
</tr>
<tr>
<td>IBH1502</td>
<td>12-1/4” Dia., 15”H</td>
<td>(2) 150w MH 50 ft.</td>
</tr>
</tbody>
</table>
WB WALL MOUNT

Shown with BW4 Bullyte (not included)

ELECTRICAL – 120V Standard.
Contact factory for other voltages.
Long range ignitor standard. Core and coil ballast encapsulated for moisture resistance.

HOUSING – Cast Aluminum housing and backplate, with stainless steel mounting screws, 1/2" NPS threaded center.

INSTALLATION – Mount at least one 1' above ground, over recessed junction box (multiple j-box mounting options).
After mounting fixture to canopy, attach backplate to canopy and seal with silicone (provided), to prevent moisture intrusion.

CERTIFICATION – UET/cETL Listed to US and Canadian Standards for wet locations.

SUGGESTED APPLICATIONS:

ABM/ABH Above Ground

IBM/IBH Inground

WB Wall Mount

Shown with S3 Perma Post and B3 Bullyte (not included).

3" minimum drainage gravel (by others).
Shown with B4 Bullyte (not included).

Shown with BW4 Bullyte (not included).
FLOODLYTES

LINE VOLTAGE
With floodlights as small as 20 watts, as large as 400 watts, and everything in between, HADCO gives you the flexibility to install just the right illumination in any application.

Whether your goal is sign lighting or security, we give you the lamping options and accessories you'll need to get the job done.
**WAMT14(F)** ALUMINUM

WAMT14-A Black  WAMT14-H Bronze

- 120 Volt
- 50 watt maximum
- T4 Halogen lamp (50 watt included)
- 1/2” NPS fitter
- Integral stepdown transformer

**HOUSING** – Cast aluminum with fully-adjustable swivel arm, with vibration-proof locking teeth.

**SHROUD** – Gasketed, cast aluminum.

**FINISH** – Black or bronze thermoset powdercoat.

**LENS** – Clear or Frosted, tempered glass, fully-gasketed.

**SOCKET** – Ceramic bi-pin (GU6.35).

**ELECTRICAL** – Stepdown transformer reduces line voltage to 12 volts. Transformer is potted/encapsulated and features thermal overload protection.

**WIRING** – Pre-wired with #18 AWG black, white and ground.

ETL, cETL Listed.

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**WBMT14(F)** ALUMINUM

WBMT14-A Black  WBMT14-H Bronze

- 120 Volt
- 50 watt maximum
- T4 Halogen lamp (50 watt included)
- 1/2” NPS fitter
- Integral stepdown transformer

**HOUSING** – Cast aluminum with fully-adjustable swivel arm, with vibration-proof locking teeth.

**TRIM RING** – Gasketed, cast aluminum.

**FINISH** – Black or bronze thermoset powdercoat.

**LENS** – Clear or Frosted, tempered glass, fully-gasketed.

**SOCKET** – Ceramic bi-pin (GU6.35).

**ELECTRICAL** – Stepdown transformer reduces line voltage to 12 volts. Transformer is potted/encapsulated and features thermal overload protection.

**WIRING** – Pre-wired with #18 AWG black, white and ground.

ETL, cETL Listed.

---

* (F) denotes optional Frosted Lens
**WAM1(F)** ALUMINUM

- WAM1-A Black
- WAM1-B White
- WAM1-G Verde
- WAM1-H Bronze

- 120 Volt
- 75 watt maximum
- T3 Halogen lamp
- 1/2” NPS fitter

**HOUSING**
- Die-cast aluminum housing with fully adjustable swivel arm (1/2” NPS) with vibration-proof locking teeth.

**SHROUD**
- Die-cast aluminum with silicone gasket for waterproof seal.

**FINISH**
- Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

**LENS**
- 1/8” Clear or Frosted tempered glass is siliconed to the shroud.

**SOCKET**
- Mini-can screw base.

**WIRING**
- Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

---

**WBM1(F)** ALUMINUM

- WBM1-A Black
- WBM1-B White
- WBM1-G Verde
- WBM1-H Bronze

- 120 Volt
- 75 watt maximum
- T3 Halogen lamp
- 1/2” NPS fitter

**HOUSING**
- Die-cast aluminum housing with fully adjustable swivel arm, with vibration-proof locking teeth.

**TRIM RING**
- Die-cast aluminum with silicone gasket for waterproof seal.

**FINISH**
- Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

**LENS**
- 1/8” Clear or Frosted tempered glass is siliconed to the shroud.

**SOCKET**
- Mini-can screw base.

**WIRING**
- Pre-wired with #18 AWG black, white and ground.

ETL, cETL Listed.

---

**Photometric Information WBM1**

Lamp Wattage: 75W

Setback Tilt

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Lumens</th>
</tr>
</thead>
<tbody>
<tr>
<td>35w T3</td>
<td>1000</td>
</tr>
<tr>
<td>60w T3</td>
<td>1500</td>
</tr>
<tr>
<td>75w T3</td>
<td>2000</td>
</tr>
</tbody>
</table>

**Isofootcandle Conversions**

* (F) denotes optional Frosted Lens

---

* (F) denotes optional Frosted Lens
FLOODLYTES

WAF1/WAF13 FLUORESCENT

WAF1-A Black  WAF1-B White  WAF1-G Verde  WAF1-H Bronze

- 120 Volt  • 1/2” NPS fitter
- WAF1 – 18 watt maximum, WAF13 – 13 watt maximum
- WAF1 – two (2) PL9 lamps, WAF13 – one (1) PL13 lamp

HOUSING – Die-cast aluminum housing with fully-adjustable swivel arm (1/2” NPS) with vibration-proof locking teeth.

SHROUD – Single die-cast aluminum shroud with silicone gasket for weatherproof seal.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

LENS – 1/8” borosilicate glass is sealed to the shroud with a one-piece molded silicone gasket and spring clips.

REFLECTOR – Formed from aluminum, painted with high reflectance white paint.

OCKET – Two (2) G23 (WAF1), or GX23 (WAF13) base, mounted directly to reflector assembly.

BALLAST – Integral core and coil, NPF, Class B, starting temperature 25˚F (WAF1) and 32˚F (WAF13).

ACCESSORIES – Accessories are available for this product. Please see Floodlyte Accessory Section on page 137.

ETL, cETL Listed.

WA1 ALUMINUM

WA1-A Black  WA1-B White
WA1-G Verde  WA1-H Bronze

- 120 Volt  • A19 Lamp  • 75 watt maximum  • 1/2” NPS fitter

HOUSING – Die-cast aluminum housing with fully-adjustable swivel arm (1/2” NPS) with vibration-proof locking teeth.

SHROUD – Single die-cast aluminum shroud with silicone gasket for weatherproof seal.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

LENS – 1/8” borosilicate glass is siliconed to the shroud.

SOCKET – Medium base.

WIRING – Pre-wired with high temperature #18 wire.

ACCESSORIES – Accessories are available for this product. Please see Floodlyte Accessory Section on page 137.

ETL, cETL Listed.

Isometric View

Photometric Information WAF1

Lamp Wattage  18w (2) PL9
Setback  6’
Tilt  45°

Isofootcandle Conversions

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Lumens</th>
<th>2’</th>
<th>4’</th>
<th>6’</th>
<th>8’</th>
<th>10’</th>
<th>12’</th>
</tr>
</thead>
<tbody>
<tr>
<td>25w A19</td>
<td>1190</td>
<td>3.5</td>
<td>0.9</td>
<td>0.4</td>
<td>0.2</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>18w (2)PL9</td>
<td>1200</td>
<td>3.5</td>
<td>0.9</td>
<td>0.4</td>
<td>0.2</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>13w PL13</td>
<td>900</td>
<td>2.6</td>
<td>0.8</td>
<td>0.5</td>
<td>0.3</td>
<td>0.2</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Setback or Mfg. Ht.
WA2 HID

HOUSING – One-piece aluminum extrusion with architecturally styled rounded die-cast aluminum sides. Integral hinged lens bracket pivots down for lens removal and relamping. Silicone gasket between the housing and lens provides a long-lasting weathertight seal.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

REFLECTOR – Formed from highly reflective hammertone aluminum and semi-specular kick plates. Reflector assembly is secured to the housing with four (4) stainless steel screws.

SOCKET – Mounted directly onto the reflector assembly and UL recognized for appropriate lamps, rated for 4 kv.

ELECTRICAL COMPONENTS – Mounted directly to the housing and prewired with leads extending from the swivel arm. All electrical components are UL, cUL recognized.

BALLAST – Ballasts (HID) are regulating with power factors better than 90% (HPF) and provide +/- 5% lamp power regulation with +/- 10% input voltage regulation. Ballasts are factory wired and tested.

MOUNTING – Aluminum die-cast. Locking teeth provide adjustment by tightening one (1) stainless steel recessed screw. 1/2-14” NPS threaded nipple provides secure mounting. Aiming up to a 60º backtilt. Fixtures used outdoors must be protected from rain and sprinklers if aimed downward.

ACCESSORIES – Accessories are available for this product. Please see Floodlyte Accessory Section on page 137.

ETL, cETL Listed.

<table>
<thead>
<tr>
<th>Lamp Wattage</th>
<th>70W HPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seback</td>
<td>10'</td>
</tr>
<tr>
<td>Tilt</td>
<td>45º</td>
</tr>
</tbody>
</table>

**Photometric Information**

**Isofootcandle Conversions**

<table>
<thead>
<tr>
<th>Lamp Wattage</th>
<th>Lamp Lumens</th>
</tr>
</thead>
<tbody>
<tr>
<td>35w HPS</td>
<td>2250</td>
</tr>
<tr>
<td>50w HPS</td>
<td>4000</td>
</tr>
<tr>
<td>70w HPS</td>
<td>6400</td>
</tr>
<tr>
<td>50w MH</td>
<td>3400</td>
</tr>
<tr>
<td>70w MH</td>
<td>5500</td>
</tr>
</tbody>
</table>

**Ordering Guide**

<table>
<thead>
<tr>
<th>Series</th>
<th>Finish (Specify)</th>
<th>Wattage</th>
<th>Voltage (E) 120V (H) 277V</th>
<th>Wattage</th>
<th>Lamp</th>
<th>Total Lumen Output</th>
<th>Lamp Life (Hrs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA2</td>
<td>(A) Black</td>
<td>35S</td>
<td>35w HPS</td>
<td>E17</td>
<td>2250</td>
<td>24000</td>
<td></td>
</tr>
<tr>
<td>WA2</td>
<td>(B) White</td>
<td>50S</td>
<td>50w HPS</td>
<td>E17</td>
<td>4000</td>
<td>24000</td>
<td></td>
</tr>
<tr>
<td>WA2</td>
<td>(E) Verde</td>
<td>70S</td>
<td>70w HPS</td>
<td>E17</td>
<td>6400</td>
<td>24000</td>
<td></td>
</tr>
<tr>
<td>WA2</td>
<td>(H) Bronze</td>
<td>50H</td>
<td>50w MH</td>
<td>E17</td>
<td>3400</td>
<td>5000</td>
<td></td>
</tr>
<tr>
<td>WA2</td>
<td>(Specify)</td>
<td>70H</td>
<td>70w MH</td>
<td>E17</td>
<td>5500</td>
<td>5000</td>
<td></td>
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</table>

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<th>Setback or Mfg. Ht.</th>
<th>2'</th>
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FLOODLYTES

WA2 FLUORESCENT

HOUSING – One-piece aluminum extrusion with architecturally styled rounded die-cast aluminum sides. Integral hinged lens bracket pivots down for lens removal and relamping. Silicone gasket between the housing and lens provides a long-lasting weathertight seal.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

REFLECTOR – Formed from highly reflective hammertone aluminum and semi-specular kick plates. Reflector assembly is secured to the housing with four (4) stainless steel screws.

ELECTRICAL COMPONENTS – Mounted directly to the housing and prewired with leads extending from the swivel arm. All electrical components are UL, cUL recognized.

SOCKET – Mounted directly onto the reflector assembly and are UL recognized for appropriate lamps, rated for 4 kv.

BALLAST – Ballasts are regulating with power factors better than 90% (HPF). Ballasts shall provide +/- 5% lamp power regulation with +/- 10% input voltage regulation. Ballasts are factory wired and tested.

MOUNTING – Aluminum die-cast. Locking teeth provide adjustment by tightening one (1) stainless steel recessed screw. 1/2-14” NPSM stainless steel threaded nipple provides secure mounting. Aiming up to a 60˚ backtilt.

Fixtures used outdoors must be protected from rain and sprinklers if aimed downward.

ACCESSORIES – Accessories are available for this product. Please see Floodlyte Accessory Section on page 137.

ETL, cETL Listed.

ORDERING GUIDE

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Finish</th>
<th>Voltage</th>
<th>Wattage</th>
<th>Total Wattage</th>
<th>Lamp</th>
<th>Min Start Temp</th>
<th>Total Lumen Output</th>
<th>Lamp Life (Hrs)</th>
<th>Fixture Housing Length</th>
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<td>(H) 277V</td>
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<td>Biax</td>
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<td>T8</td>
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Or d e r i n g gu i d e
Photometric Information

### Isofootcandle Conversions

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### Isofootcandle Conversions

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### Photometric Information

- **Setback or Height**: 2' 4' 6' 8'
- **Lamp Wattage**: 26w (2)PL
- **Lamp Lumens**: 1800
- **Setback**: 6'
- **Tilt**: 45º

### Photometric Information

- **Setback or Height**: 2' 4' 6' 8'
- **Lamp Wattage**: 40W Biax
- **Lamp Lumens**: 3200
- **Setback**: 6'
- **Tilt**: 45º

### Photometric Information

- **Setback or Height**: 2' 4' 6' 8'
- **Lamp Wattage**: 50w Biax
- **Lamp Lumens**: 4000
- **Setback**: 6'
- **Tilt**: 45º

### Photometric Information

- **Setback or Height**: 2' 4' 6' 8'
- **Lamp Wattage**: 80w (2)Biax
- **Lamp Lumens**: 6300
- **Setback**: 6'
- **Tilt**: 45º

### Photometric Information

- **Setback or Height**: 2' 4' 6' 8'
- **Lamp Wattage**: 30w PL
- **Lamp Lumens**: 1300
- **Setback**: 6'
- **Tilt**: 45º

### Photometric Information

- **Setback or Height**: 2' 4' 6' 8'
- **Lamp Wattage**: 52w Biax
- **Lamp Lumens**: 4000
- **Setback**: 6'
- **Tilt**: 45º
HOUSING – One-piece aluminum die-casting. Integral cast hinge with stainless steel pins is concealed internally and allows easy access for relamping. One-piece molded silicone gasket between the housing and door frame provides a long-lasting weathertight seal.

DOOR FRAME – One-piece die-cast aluminum. WA3 – long shroud with tapered sides is part of the door frame. Hinged door frame is secured to housing by four (4) stainless steel recessed captive phillips-head screws.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

REFLECTOR – Formed from highly reflective hammertone aluminum and semi-specular kick plates. Reflector assembly is secured to the housing with four (4) stainless steel screws.

LENS – 1/8” tempered glass and is sealed to the door frame with a one-piece molded silicone gasket and spring clips.

ELECTRICAL COMPONENTS – Mounted directly to the housing and prewired with leads extending from the swivel arm. All electrical components are UL, cUL recognized.

SOCKET – Mounted directly onto the reflector assembly and are UL recognized for appropriate lamps, rated for 4 kv.

BALLAST – Ballasts (HID) are regulating with power factors better than 90% (HPF). Ballasts shall provide +/- 5% lamp power regulation with +/-10% input voltage regulation.

MOUNTING – Aluminum die-cast. Locking teeth provide adjustment by tightening one (1) stainless steel recessed screw. 1/2-14” NPS threaded nipple provides secure mounting.

ACCESSORIES – Accessories are available for this product. Please see Floodlyte Accessories Section on page 137.

ETL, cETL Listed.
**ISOFOOTCANDLE CONVERSIONS**

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<tr>
<th>Lamp</th>
<th>Lumens</th>
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<th>6'</th>
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<th>16'</th>
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**PHOTOMETRIC INFORMATION**

**WA3-HF**
- Horizontal Flood w/ Shroud
- Lamp Wattage: 150W HPS
- Setback: 10'
- Tilt: 37-1/2º

**WB3-HF**
- Horizontal Flood w/o Shroud
- Lamp Wattage: 150W HPS
- Setback: 10'
- Tilt: 37-1/2º

**ORDERING GUIDE**

<table>
<thead>
<tr>
<th>Series</th>
<th>Finish</th>
<th>Optics</th>
<th>Photo Control</th>
<th>Wattage</th>
<th>Voltage</th>
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<td>(F) 208V</td>
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<td>(G) Verde</td>
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<td>(G) 240V</td>
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**PHILIPS HADCO**

[Image of the page]
HOUSING – One-piece aluminum die-casting. Integral cast hinge with stainless steel pins is concealed internally and allows easy access for relamping. One-piece molded silicone gasket between the housing and door frame provides a long-lasting weathertight seal.

DOOR FRAME – One-piece die-cast aluminum. WA3 – long shroud with tapered sides is part of the door frame. Hinged door frame is secured to housing by four (4) stainless steel recessed captive phillips-head screws.

WA3 – Long shroud with tapered sides as part of the door frame. Hinged door frame is secured to the housing by four (4) stainless steel recessed captive phillips-head screws.

FINISH – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

REFLECTOR – Formed from highly reflective hammertone aluminum and semi-specular kick plates. Reflector assembly is secured to the housing with four (4) stainless steel screws.

LENS – 1/8” tempered glass and is sealed to the door frame with a one-piece molded silicone gasket and spring clips.

SOCKET – Mounted directly onto the reflector assembly and are UL recognized for appropriate lamps, rated for 4 kv.

ELECTRICAL COMPONENTS – Mounted directly to the housing and prewired with leads extending from the swivel arm. All electrical components are UL, cUL recognized.

BALLAST – Ballasts (HID) are regulating with power factors better than 90% (HPF). Ballasts shall provide +/- 5% lamp power regulation with +/- 10% input voltage regulation.

MOUNTING – Aluminum die-cast. Locking teeth provide adjustment by tightening one (1) stainless steel recessed screw. 1/2-14" threaded nipple provides secure mounting.

ACCESSORIES – Accessories are available for this product. Please see Floodlyte Accessories Section on page 137.

ETL, cETL Listed.
**Ordering Guide**

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*250 watt ballast must be remote mounted.

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**Isofootcandle Conversions**

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<th>Lumens</th>
<th>4'</th>
<th>6'</th>
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<td>3.2</td>
<td>2.8</td>
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**Photometric Information**

**WA3-VF**
- Horizontal Flood w/ Shroud
- Lamp Wattage: 150W HPS
- Setback: 10'
- Tilt: 45°

**WB3-VF**
- Horizontal Flood w/o Shroud
- Lamp Wattage: 150W HPS
- Setback: 10'
- Tilt: 45°

---

**Photometric Information**

**WA3-VF**
- Horizontal Flood w/ Shroud
- Lamp Wattage: 150W HPS
- Setback: 10'
- Tilt: 45°

**WB3-VF**
- Horizontal Flood w/o Shroud
- Lamp Wattage: 150W HPS
- Setback: 10'
- Tilt: 45°

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**Ordering Guide**

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<tr>
<th>Series</th>
<th>Finish</th>
<th>Optics (Horiz. Flood)</th>
<th>Photo Control (Y or N)</th>
<th>Wattage</th>
<th>Voltage (E) 120V (F) 208V (G) 240V (H) 277V (K) 347V Wattage</th>
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<tbody>
<tr>
<td>WA3</td>
<td>(Specify)</td>
<td>(Specify)</td>
<td>(Specify)</td>
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<td>WB3</td>
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<td>70H</td>
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<td>(Specify)</td>
<td>(Specify)</td>
<td>300Q</td>
<td>300w quartz T-4 mini-can</td>
</tr>
</tbody>
</table>

*250 watt ballast must be remote mounted.
**Housing** – One-piece aluminum die-casting. Integral cast hinge with stainless steel pins is concealed internally and allows easy access for relamping. One-piece molded silicone gasket between the housing and door frame provides a long-lasting weathertight seal.

**Door Frame** – One-piece die-cast aluminum. WA3 – long shroud with tapered sides is part of the door frame. Hinged door frame is secured to housing by four (4) stainless steel recessed captive phillips-head screws.

**Finish** – Black, hand-rubbed verde antiqued over black thermoset powdercoat, bronze or white thermoset powdercoat.

**Reflector** – Formed from highly reflective hammertone aluminum and semi-specular kick plates. Reflector assembly is secured to the housing with four (4) stainless steel screws.

**Lens** – 1/8” tempered glass and is sealed to the door frame with a one-piece molded silicone gasket and spring clips.

**Socket** – Mounted directly onto the reflector assembly and are UL recognized for appropriate lamps, rated for 4 kv.

**Electrical Components** – Mounted directly to the housing and prewired with leads extending from the swivel arm. All electrical components are UL, cUL recognized.

**Ballast** – Ballasts (HID) are regulating with power factors better than 90% (HPF). Ballasts shall provide +/- 5% lamp power regulation with +/- 10% input voltage regulation.

**Mounting** – Aluminum die-cast. Locking teeth provide adjustment by tightening one (1) stainless steel recessed screw. 1/2-14” threaded nipple provides secure mounting.

**Accessories** – Accessories are available for this product. Please see Floodlyte Accessories Section on page 137.

ETL, cETL Listed.
### ISOFOOTCANDLE CONVERSIONS

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Lumens</th>
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<tr>
<td>10w HS</td>
<td>4900</td>
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<td>100w HS</td>
<td>9500</td>
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<td>16000</td>
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<td>27500</td>
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<td>14000</td>
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<td>20500</td>
</tr>
<tr>
<td>300w Inc.</td>
<td>10450</td>
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</table>

### PHOTOMETRIC INFORMATION

#### WA3-HS

- **Lamp Wattage:** 150W HPS
- **Setback:** 30'
- **Tilt:** 7-1/2°

#### WB3-HS

- **Lamp Wattage:** 150W HPS
- **Setback:** 30'
- **Tilt:** 7-1/2°

### ORDERING GUIDE

<table>
<thead>
<tr>
<th>Series</th>
<th>Finish</th>
<th>Optics</th>
<th>Photo Control</th>
<th>Voltage</th>
<th>Wattage</th>
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<td>(Specify)</td>
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<td>(F) 208V</td>
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<td>(Specify)</td>
<td>(Specify)</td>
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<td>(H) 277V</td>
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<td>(Specify)</td>
<td>(K) 347V</td>
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<tr>
<td></td>
<td>(Specify)</td>
<td>(Specify)</td>
<td>(Specify)</td>
<td></td>
<td>300w qrtz, T-4 mini-can</td>
</tr>
</tbody>
</table>

*250 watt ballast must be remote mounted.*
WA/WB SERIES ACCESSORIES

BARN DOORS (WB3 Only)
Barn door assembly provides adjustable cutoff with hinged extruded aluminum baffle doors. Wire form mounts to pre-drilled door frame holes on the WB3 Floodlyte. Doors are locked with set screws and are individually removable. Not recommended in vandal prone areas.

<table>
<thead>
<tr>
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<th>Finish</th>
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</thead>
<tbody>
<tr>
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<td>Black</td>
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<tr>
<td>MW31B</td>
<td>White</td>
</tr>
<tr>
<td>MW31G</td>
<td>Verde</td>
</tr>
<tr>
<td>MW31H</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

LEXAN SHIELD
Vandal shield is constructed of 1/16” clear convex UV stabilized injection molded polycarbonate. Shield mounts to pre-drilled door frame holes on the WA3 or WB3 Floodlyte. (Barn door assembly may NOT be mounted over Lexan shield.) For use with 175W HID maximum.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW32</td>
<td>Clear convex polycarbonate shield</td>
</tr>
</tbody>
</table>

CYLINDRICAL J-BOX
Architecturally styled die-cast aluminum J-box for above grade installations. Large access cover allows easy entry into the splice compartment and for mounting a button eye photocell in the cover. Photocell may be ordered factory installed or “knock-out” may be drilled in the field and photocell installed. One-piece molded neoprene cover gasket provides a water tight seal. Cover screws are captive and countersunk. Internal ground screw is provided. On top a 1/2” NPSM is provided for fixture mounting and on the bottom two (2) 1/2” NPT for conduit entry.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>MW33</td>
<td>(Specify) Bronze</td>
<td>Cylindrical J-Box</td>
</tr>
<tr>
<td>MW331</td>
<td>(Specify) Black</td>
<td>Cylindrical J-Box w/20V Button-eye photocell</td>
</tr>
<tr>
<td>MW332</td>
<td>(Specify) White</td>
<td>Cylindrical J-Box w/277V Button-eye photocell</td>
</tr>
<tr>
<td>M0004</td>
<td>-</td>
<td>120V Button-eye photocell (field installation)</td>
</tr>
<tr>
<td>M0005</td>
<td>-</td>
<td>277V Button-eye photocell (field installation)</td>
</tr>
</tbody>
</table>

WALL or CEILING CANOPY MOUNT
Fixture mounts to a cast aluminum mounting plate and installs on standard 4” square or octagonal J-box via galvanized steel plate. Fixture mounts with 1/2” stainless steel nipple and is locked by turning two (2) stainless steel set screws. The aluminum canopy cover provides splice access.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MW34-A</td>
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<tr>
<td>MW34-B</td>
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<tr>
<td>MW34-G</td>
<td>Verde</td>
</tr>
<tr>
<td>MW34-H</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

TREE MOUNT J-BOX
Cast aluminum J-box for tree mount installations. Two (2) cast ears with holes allow easy installation with galvanized lag screws with hex nuts (provided) to mount the J-box away from the tree surface. Front access cover allows easy entry into the splice compartment. On the front a 1/2” NPSM is provided for fixture mounting and four (4) 1/2” NPT equally spaced 90° on the side for conduit entry. Fixture is mounted by turning two (2) stainless steel set screws.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
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<tbody>
<tr>
<td>TM3-A</td>
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<td>Verde</td>
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<tr>
<td>TM3-H</td>
<td>Bronze</td>
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</tbody>
</table>
**SINGLE POST TOP MOUNT**
One-piece cast aluminum fitter for mounting a single fixture on a pole with a 2” pipe tenon. Fixture mounts with 1/2” stainless steel stud and is locked by turning two (2) stainless steel set screws. Fitter is secured to the pole with a 1/4”-20 allen set screw allowing 360º horizontal adjustment and has a removable top cap for splice access.

<table>
<thead>
<tr>
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<th>Finish</th>
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<tbody>
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<tr>
<td>PT21-G</td>
<td>Verde</td>
</tr>
<tr>
<td>PT21-H</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

**TWIN POST TOP MOUNT**
One-piece cast aluminum fitter for mounting two (2) fixtures on a pole with a 2” pipe tenon. Fixture mounts with 1/2” stainless steel stud and is locked by turning two (2) stainless steel set screws. Fitter is secured to the pole with a 1/4”-20 allen set screw allowing 360º horizontal adjustment and has a removable top cap for splice access.

<table>
<thead>
<tr>
<th>Catalog No.</th>
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<tbody>
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<td>PT22-G</td>
<td>Verde</td>
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<tr>
<td>PT22-H</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

**SINGLE POST TOP MOUNT FOR 3” O.D. POLE**
One-piece cast aluminum fitter for mounting a single fixture on a 3” O.D. pole. Fixture mounts with 1/2” stainless steel stud and is locked by turning two (2) stainless steel set screws. Fitter is secured to the pole with a 1/4”-20 allen set screw allowing 360º horizontal adjustment.

<table>
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<tr>
<th>Catalog No.</th>
<th>Finish</th>
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<tbody>
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<td>Verde</td>
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<tr>
<td>PT23-H</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

**SINGLE STANCHION MOUNT**
3” O.D. x 18” high extruded aluminum post (0.125” wall) with 1/2” NPSM fixture mount. Flush mount access cover allows easy access for wiring connections. Internal ground lug supplied.

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
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<tbody>
<tr>
<td>SS18-A</td>
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<tr>
<td>SS18-B</td>
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<tr>
<td>SS18-G</td>
<td>Verde</td>
</tr>
<tr>
<td>SS18-H</td>
<td>Bronze</td>
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</tbody>
</table>
Whether used to graze walls or uplight features, inground fixtures are powerful, versatile tools for expressing your design vision.

They’ll deliver the illumination you need – yet blend seamlessly with their surroundings. And our flush mount fixtures integrate so completely, people can even walk on them.

With a generous selection of trim rings, rock guards, lenses and louvers, our ingrounds will harmonize with almost any terrain. And properly installed, they’ll provide years of light to your landscape.
INGROUNDS

**Housing** — Single-piece compression molded, fiberglass reinforced polyester composite housing.

**Trim Ring** — Compression molded polyester, or die-cast stainless steel or natural cast bronze.

**Rock Guard** — Directional for glare control. Compression molded polyester or natural cast bronze.

**Lens** — Clear convex, tempered soda-lime glass for high impact resistance. 2,200-pound live-load rated, standard walk-over.

**Socket** — PAR or R lamp: medium base. MR16 bi-pin type (GU5.3). PAR36/AR111; double screw terminal base. Fluorescent: GX24q-3 or GX24q-2 base.

**Electrical** — Integral electronic transformer converts 120V to 12V; integral electronic fluorescent ballast.

**Aiming** — MR16 and PAR36 lamps have 15° either side of vertical and 358° rotation. PARR 20 or 30 and fluorescent are not aimable.

**ADA Compliant** — Compliant when used in concrete and flush mounted with CP2 or CPS2.

**ETL, cETL Listed.**

**Accessories**

- **ICG16** Internal Snap-on Honeycomb Louver. Lamp – MR16
- **ICG20** Internal Snap-on Honeycomb Louver. Lamp – PAR20
- **ICG30** Internal Snap-on Honeycomb Louver. Lamp – PAR30
- **ICG36** Internal Snap-on Honeycomb Louver. Lamp – PAR36
- **IBL1** Exterior Ice Blue Tempered Lens. Finish – Bronze color
- **IS1H** Cast Aluminum Exterior Glare Shield. Lamp – MR16
- **IBL16** Internal Snap-on Ice Blue Tempered Lens. Lamp – MR16
- **ISL16** Internal Snap-on Spread Lens. Lamp – MR16
- **IAS16** Internal Linear Spread Lens. Lamp – MR16

**CP2** PVC Concrete Pour Kit.

**CPS2** Stainless Steel Concrete Pour Kit.

**Low Voltage With Integral Transformer**

**PAR36.**

**Low Voltage With Integral Transformer**

**MR16.**

**Bottom View**

- 5-1/2” [143mm]
- 2-1/8” [54mm]
- 1-1/2” [38mm]
- Two (2) 1/2” NPS Threaded Conduit inlets on bottom.
### Product Selection Guide (Incandescent)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Finish</th>
<th>Max Wattage</th>
<th>Lamp</th>
<th>Socket</th>
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</thead>
<tbody>
<tr>
<td>I2-H</td>
<td>Small Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>100W</td>
<td>PAR/R20 or PAR/R30</td>
<td>Medium Base</td>
</tr>
<tr>
<td>I2-N</td>
<td>Small Inground with Cast Bronze Trim Ring</td>
<td>Natural Cast Bronze</td>
<td>100W</td>
<td>PAR/R20 or PAR/R30</td>
<td>Medium Base</td>
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<tr>
<td>I2-SS</td>
<td>Small Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>100W</td>
<td>PAR/R20 or PAR/R30</td>
<td>Medium Base</td>
</tr>
<tr>
<td>I2G-H</td>
<td>Small Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>100W</td>
<td>PAR/R20 or PAR/R30</td>
<td>Medium Base</td>
</tr>
<tr>
<td>I2G-N</td>
<td>Small Inground with Cast Bronze Rock Guard</td>
<td>Natural Cast Bronze</td>
<td>100W</td>
<td>PAR/R20 or PAR/R30</td>
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### Product Selection Guide (Integral 12V Transformer)

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<th>Socket</th>
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<td>Small Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>75W</td>
<td>MR16</td>
<td>GU5.3 Bi-Pin Socket</td>
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<td>IT216-N</td>
<td>Small Inground with Cast Bronze Trim Ring</td>
<td>Natural Cast Bronze</td>
<td>75W</td>
<td>MR16</td>
<td>GU5.3 Bi-Pin Socket</td>
</tr>
<tr>
<td>IT216-SS</td>
<td>Small Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>75W</td>
<td>MR16</td>
<td>GU5.3 Bi-Pin Socket</td>
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<td>IT226-G-H</td>
<td>Small Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>75W</td>
<td>MR16</td>
<td>GU5.3 Bi-Pin Socket</td>
</tr>
<tr>
<td>IT226-G-N</td>
<td>Small Inground with Cast Bronze Rock Guard</td>
<td>Natural Cast Bronze</td>
<td>75W</td>
<td>MR16</td>
<td>GU5.3 Bi-Pin Socket</td>
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<tr>
<td>IT236-H</td>
<td>Small Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>75W</td>
<td>PAR36/AR111</td>
<td>Double Screw Terminal</td>
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<td>Small Inground with Cast Bronze Trim Ring</td>
<td>Natural Cast Bronze</td>
<td>75W</td>
<td>PAR36/AR111</td>
<td>Double Screw Terminal</td>
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<td>Small Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>75W</td>
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<td>Double Screw Terminal</td>
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### Product Selection Guide (Fluorescent)

<table>
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<th>Finish</th>
<th>Max Wattage</th>
<th>Lamp</th>
<th>Socket</th>
<th>Minimum Op Temperature</th>
<th>Lamp Life (Hrs)</th>
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<tbody>
<tr>
<td>IF232-H</td>
<td>Small Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>32w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF232-G-H</td>
<td>Small Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>32w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF232-H</td>
<td>Small Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>26w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
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<tr>
<td>IF232-G-H</td>
<td>Small Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>26w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF232-H</td>
<td>Small Inground with Composite Trim Ring</td>
<td>Natural Cast Bronze</td>
<td>32w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
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<tr>
<td>IF232-G-N</td>
<td>Small Inground with Cast Bronze Rock Guard</td>
<td>Natural Cast Bronze</td>
<td>32w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
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<td>IF232-H</td>
<td>Small Inground with Composite Trim Ring</td>
<td>Natural Cast Bronze</td>
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<tr>
<td>IF232-G-N</td>
<td>Small Inground with Cast Bronze Rock Guard</td>
<td>Natural Cast Bronze</td>
<td>26w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
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<td>Small Inground with Composite Trim Ring</td>
<td>Bronze</td>
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<td>Compact Fluorescent</td>
<td>GX24q-2</td>
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<td>10000</td>
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<tr>
<td>IF218-G-H</td>
<td>Small Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>18w</td>
<td>Compact Fluorescent</td>
<td>GX24q-2</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF218-G-N</td>
<td>Small Inground with Cast Bronze Rock Guard</td>
<td>Natural Cast Bronze</td>
<td>18w</td>
<td>Compact Fluorescent</td>
<td>GX24q-2</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF218-G-N</td>
<td>Small Inground with Stainless Steel Trim Ring</td>
<td>Natural Cast Bronze</td>
<td>18w</td>
<td>Compact Fluorescent</td>
<td>GX24q-2</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF218-H</td>
<td>Small Inground with Composite Trim Ring</td>
<td>Stainless Steel</td>
<td>32w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF218-G-N</td>
<td>Small Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>26w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>IF218-G-N</td>
<td>Small Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>18w</td>
<td>Compact Fluorescent</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
</tbody>
</table>

TRIM RING: Natural cast bronze or cast stainless steel. Secured with stainless steel screws.

ROCK GUARD: Natural cast bronze or cast stainless steel. Secured with stainless steel screws.

HALF DOME: Field adjustable for directional glare control. Natural cast bronze or cast stainless steel. Secured with stainless steel screws.

LENS: Clear convex, tempered borosilicate for high-impact resistance. 3,000 lb live load rated, drive-over. Cool touch lens option for T4, T6 and E17 lamps reduces external lens temperatures by up to 35% – includes internal clear (double) lens, internal ice blue lens, internal multi-directional spread lens and internal linear spread lens.

GASKET: Gaskets for lens and ballast assembly are single-piece molded 100% silicone. Gasket for junction box cover is single-piece die-cut neoprene.


REFLECTOR: Handle enables easy tool-less removal for hot aiming and re-lamping. High-performance aluminum reflector for optimum symmetrical light output. MH T-4 and T-6: Available for spot, narrow flood or flood beam pattern. MH E-17: Available for spot or flood beam pattern. Compact Fluorescent: Available in flood only.

ELECTRICAL: HID and CFL: Key-slotted Ballast Assembly with Quick Disconnects mounted to cast aluminum bracket for easy maintenance. Universal Smart Select™ electronic ballasts automatically detect 120-277 volts, 50/60 Hz, HPF. Ballasts provide ± 5% lamp power regulation with ± 10% input voltage regulation.

AIMING: 15° either side of vertical and full 360° rotation. Angle degree marks for precise vertical aiming with tool-less LOC-AIM®.

ADA COMPLIANT: Compliant when used in concrete and flush-mounted with CPS25.

IP RATING: IP66/68 to 1M (3.28FT); Dust-tight and dual rated – sealed against direct jets of water and against continuous immersion up to a depth of 1 meter (3.28 feet). ETL Listed.

ACCESSORIES

- **CPS25** Stainless steel concrete pour kit
- **I25CRG** External cast natural bronze rock guard
- **I25CRGS** External cast stainless steel rock guard
- **I25HDN** External cast natural bronze half dome
- **IBLR** Internal ice blue lens for reflectors (Lamp: T-4, T-6 or E-17)
- **IMSLR** Internal multi-directional spread lens for reflectors (Lamp: T-4, T-6 or E-17)
- **ILSLR** Internal linear spread lens for reflectors (Lamp: T-4, T-6 or E-17)
- **ICGR** Internal honeycomb louver for reflectors (Lamp: T-4, T-6 or E-17)
- **ICLR** Internal clear (double) lens for reflectors (Lamp: T-4, T-6 or E-17)
- **I25FRS** Internal frosted lens
- **I25SSLR** Internal slip-resistant lens
- **I25SRL** External slip-resistant lens
- **I25HDSS** External cast stainless steel half dome

NOTE: For internal accessories ICLR, IBLR, IMSLR, ILSLR, ICGR, IDLR and ISSR: 50W E-17, 35W T-4/T-6 and 20W T-4 – Use multiple internal accessories with any external lens (Example: IBLR + IMSLR + I25FRS). 70W T-4/T-6/E-17 – Use (1) internal lens and (1) internal glare control accessory with the standard external clear lens or the external slip-resistant lens; when using external frosted lens, use no accessories (Example: ICLR + ICGR + I25FRS). CFL, HID PAR, INC PAR = ICLR, IBLR, IMSLR, ILSLR, ICGR, IDLR and ISSR can not be used.
**Photometric Information (70W Metal Halide Wall)**

### Ordering Guide (Fluorescent)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Finish (N) Natural Cast Bronze (SS) Stainless Steel</th>
<th>Optics (FL) Flood</th>
<th>Wattage*</th>
<th>Socket*</th>
<th>Minimum Operating Temperature</th>
<th>Lamp Life (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I25</td>
<td>(        )</td>
<td>FL</td>
<td>42PLT</td>
<td>GX24q3/GX24q-4</td>
<td>-18°F</td>
<td>10,000</td>
</tr>
</tbody>
</table>

† All CFL electronic ballasts are Smart Select™ universal voltage 120-277VAC 50/60Hz and will operate 26W, 32W or 42W lamps.

* Universal CFL socket will accept 26W and 32W GX24q-3 and 42W GX24q-4 lamps.

### Ordering Guide (Incandescent)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Finish</th>
<th>Max Wattage*</th>
<th>Lamp</th>
<th>Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>I25-N</td>
<td>Hinge top ingrade with natural cast bronze trim ring</td>
<td>Natural cast bronze</td>
<td>100W</td>
<td>PAR/R20 or PAR/R30</td>
<td>Medium base</td>
</tr>
<tr>
<td>I25-SS</td>
<td>Hinge top ingrade with stainless steel trim ring</td>
<td>Stainless steel</td>
<td>100W</td>
<td>PAR/R20 or PAR/R30</td>
<td>Medium base</td>
</tr>
</tbody>
</table>

### Ordering Guide (HID)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Finish (N) Natural Cast Bronze (SS) Stainless Steel</th>
<th>Optics (SP) Spot (NF) Narrow Flood (FL) Flood (O) No Reflector (PAR/R lamps)</th>
<th>Wattage*</th>
<th>Wattage/Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>I25</td>
<td>(        )</td>
<td>(SP, NF, FL)</td>
<td>20T4</td>
<td>20W Metal Halide T-4, Bi-pin G-8.5</td>
</tr>
<tr>
<td>I25</td>
<td>(        )</td>
<td>(SP, NF, FL)</td>
<td>35T4</td>
<td>35W Metal Halide T-4, Bi-pin G-8.5</td>
</tr>
<tr>
<td>I25</td>
<td>(        )</td>
<td>(SP, NF, FL)</td>
<td>70T4</td>
<td>70W Metal Halide T-4, Bi-pin G-8.5</td>
</tr>
<tr>
<td>I25</td>
<td>(        )</td>
<td>(SP, NF, FL)</td>
<td>35T6</td>
<td>35W Metal Halide T-6, Bi-pin G-12</td>
</tr>
<tr>
<td>I25</td>
<td>(        )</td>
<td>(SP, NF, FL)</td>
<td>70T6</td>
<td>70W Metal Halide T-6, Bi-pin G-12</td>
</tr>
<tr>
<td>I25</td>
<td>(        )</td>
<td>0</td>
<td>35H</td>
<td>35W Metal Halide PAR20/30, Medium Base</td>
</tr>
<tr>
<td>I25</td>
<td>(        )</td>
<td>(SP, FL)</td>
<td>50H</td>
<td>50W Metal Halide E-17, Medium Base</td>
</tr>
<tr>
<td>I25</td>
<td>(        )</td>
<td>(SP, FL, 0)</td>
<td>70H</td>
<td>70W Metal Halide E-17, PAR30, Medium Base</td>
</tr>
</tbody>
</table>

† All HID electronic ballasts are Smart Select™ universal voltage 120-277VAC 50/60Hz.

TRIM RING – Compression molded polyester, or die-cast stainless steel, or natural cast bronze. All trim rings are secured with stainless steel screws.

ROCK GUARD – Directional for glare control. Compression molded polyester or natural cast bronze.

LENS – Clear convex, tempered soda-lime glass for high impact resistance. 2,200-pound live-load rated, standard walk-over.

GASKET – Single-piece molded silicone U-channel.

SOCKET – Incandescent and HID: medium base. Fluorescent: GX24q-3 or GX24q-4 base.

REFLECTOR – Optional specular aluminum spun reflector available for E17 spot (15°) or flood (70°) beam pattern. Fluorescent available in flood.

ELECTRICAL – Standard quad-volt core and coil mounted on key-slotted removable tray with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

AIMING – 15° either side of vertical and 358° rotation. PARR and fluorescent are not aimable.

ADA COMPLIANT – Compliant when used in concrete and flush mounted with CP3 or CPS3.

ETL, cETL Listed.

ACCESSORIES

CP3
PVC Concrete Pour Kit.

CPS3
Stainless Steel Concrete Pour Kit.

ICG20
Internal Snap-on Honeycomb Louver; Lamp – PAR20

ICG30
Internal Snap-on Honeycomb Louver; Lamp – PAR30

ICG36
Internal Snap-on Honeycomb Louver; Lamp – PAR36

ICG38
Internal Snap-on Honeycomb Louver; Lamp – PAR38

I3ICL
Internal Clear (Double) Lens.

IS3H
Cast Aluminum Exterior Glare Shield. Finish – Bronze
**Catalog Number** | **Description** | **Finish** | **Max Wattage** | **Lamp** | **Socket**
---|---|---|---|---|---
I3-H | Medium Inground with Composite Trim Ring | Bronze | 100w | PAR/R30 or PAR38/R40 | Medium Base
I3G-H | Medium Inground with Composite Rock Guard | Bronze | 100w | PAR/R30 or PAR38/R40 | Medium Base
I3-N | Medium Inground with Cast Bronze Trim Ring | Natural Cast Bronze | 100w | PAR/R30 or PAR38/R40 | Medium Base
I3G-N | Medium Inground with Cast Bronze Rock Guard | Natural Cast Bronze | 100w | PAR/R30 or PAR38/R40 | Medium Base
I3-SS | Medium Inground with Stainless Steel Trim Ring | Stainless Steel | 100w | PAR/R30 or PAR38/R40 | Medium Base

**Ordering Guide (HID)**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>(G) Optional Rock Guard</th>
<th>(H) Bronze</th>
<th>(N) Natural Cast Bronze</th>
<th>(SS) Stainless Steel</th>
<th>Optics (FL) Flood (70°)</th>
<th>(H) Horizontal (78°–100°)</th>
<th>(SP) Spot (15°)</th>
<th>(O) No Reflector (PAR/R lamps)</th>
<th>Voltage</th>
<th>Wattage/Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>I3</td>
<td>(G) (Specify)</td>
<td>O</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>120, 208</td>
<td></td>
</tr>
</tbody>
</table>
| I3 | (G) (Specify) | (FL, H, SP) | | | | | | | 35H (Specify) | 35w Metal Halide PAR20, Medium Base
| I3 | (G) (Specify) | (FL, SP) | | | | | | | 70H (Specify) | 70w Metal Halide E17, Medium Base
| I3 | (G) (Specify) | (FL, H, SP) | | | | | | | 100H (Specify) | 100w Metal Halide E17, PAR38, Medium Base
| I3-HHO* | Housing Only |

**Ordering Guide (Fluorescent)**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>(G) Optional Rock Guard</th>
<th>(H) Bronze</th>
<th>(N) Natural Cast Bronze</th>
<th>(SS) Stainless Steel</th>
<th>Optics (FL) Flood</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Socket</th>
<th>Minimum Op Temperature</th>
<th>Lamp Life (Hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I3</td>
<td>(G) (Specify)</td>
<td>FL</td>
<td>26PLT</td>
<td>(Specify)</td>
<td>GX24q-3</td>
<td>20°F</td>
<td>10000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I3</td>
<td>(G) (Specify)</td>
<td>FL</td>
<td>32PLT</td>
<td>(Specify)</td>
<td>GX24q-3</td>
<td>20°F</td>
<td>10000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I3</td>
<td>(G) (Specify)</td>
<td>FL</td>
<td>42PLT</td>
<td>(Specify)</td>
<td>GX24q-4</td>
<td>20°F</td>
<td>10000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.
HOUSING – Single-piece compression molded, fiberglass reinforced polyester composite housing. Re-enterable compound provided to seal junction.

TRIM RING – Compression molded polyester, or die-cast stainless steel, or natural cast bronze. All trim rings are secured with stainless steel screws.

ROCK GUARD – Directional for glare control. Compression molded polyester or natural cast bronze.

LENS – Clear convex, tempered soda-lime glass for high impact resistance. 2,600-pound live-load rated, standard walk-over.

GASKET – Single-piece molded silicone U-channel.

SOCKET – Incandescent and HID: medium base. Fluorescent: GX24q-3 or GX24q-4 base.

REFLECTOR – Optional specular aluminum spun reflector available for EL17 spot (15°) or flood (70°) beam pattern. Hammertone aluminum for horizontal (78°-100°) beam pattern. Fluorescent available in flood or horizontal only.

ELECTRICAL – HID: standard quad-volt core and coil mounted on key-slotted removable tray with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

AIMING – 15° either side of vertical and 358° rotation.

ADA COMPLIANT – Compliant when used in concrete and flush mounted with CP4 or CPS4.

ETL, cETL Listed.

ACCESSORIES

CP4 PVC Concrete Pour Kit.
CP5 Stainless Steel Concrete Pour Kit.
ICG38 Internal Snap-on Honeycomb Louver. Lamp – PAR38
ICGFL Internal Honeycomb Louver for FL reflector. Lamp – EL17 or PLT Lamp
ICGSP Internal Honeycomb Louver for SP reflector. Lamp – EL17
I4SRL Internal Slip-resistant Lens.
I4ICL Internal Clear (Double) Lens.
I4IDL Internal Directional Louver, Laser Cut.
IS4H Cast Aluminum exterior Glare Shield. Finish – Bronze
**Product Selection Guide (Incandescent)**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Finish</th>
<th>Max Wattage</th>
<th>Lamp</th>
<th>Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>I4-H</td>
<td>Large Inground with Composite Trim Ring</td>
<td>Bronze</td>
<td>150w</td>
<td>PAR38/R40</td>
<td>Medium Base</td>
</tr>
<tr>
<td>I4G-H</td>
<td>Large Inground with Composite Rock Guard</td>
<td>Bronze</td>
<td>150w</td>
<td>PAR38/R40</td>
<td>Medium Base</td>
</tr>
<tr>
<td>I4-N</td>
<td>Large Inground with Cast Bronze Trim Ring</td>
<td>Natural Cast Bronze</td>
<td>150w</td>
<td>PAR38/R40</td>
<td>Medium Base</td>
</tr>
<tr>
<td>I4G-N</td>
<td>Large Inground with Cast Bronze Rock Guard</td>
<td>Natural Cast Bronze</td>
<td>150w</td>
<td>PAR38/R40</td>
<td>Medium Base</td>
</tr>
<tr>
<td>I4-SS</td>
<td>Large Inground with Stainless Steel Trim Ring</td>
<td>Stainless Steel</td>
<td>150w</td>
<td>PAR38/R40</td>
<td>Medium Base</td>
</tr>
</tbody>
</table>

**Ordering Guide (HID)**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>(G) Optional Rock Guard (available in composite, bronze or cast bronze only)</th>
<th>Finish (H) Bronze (N) Natural Cast Bronze (SS) Stainless Steel</th>
<th>Optics (FL) Flood (70º) (H) Horizontal (78º–100º) (SP) Spot (15º) (O) No Reflector (for PAR lamps)</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Wattage/Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(FL, SP, H)</td>
<td>(Specify)</td>
<td>505</td>
<td>120, 208</td>
<td>50w High Pressure Sodium E17</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(FL, SP, H)</td>
<td>(Specify)</td>
<td>705</td>
<td>240, 277</td>
<td>70w High Pressure Sodium E17</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(FL, SP, H)</td>
<td>(Specify)</td>
<td>100S</td>
<td>240, 277</td>
<td>100w High Pressure Sodium E17</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(FL, SP, H)</td>
<td>(Specify)</td>
<td>150S</td>
<td>240, 277</td>
<td>150w High Pressure Sodium E17</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(FL, SP, H)</td>
<td>(Specify)</td>
<td>150H</td>
<td>240, 277</td>
<td>150w Metal Halide E17, PAR38</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(FL, SP, H)</td>
<td>(Specify)</td>
<td>150TH</td>
<td>240, 277</td>
<td>150w Metal Halide E17, PAR38</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(FL, SP, H)</td>
<td>(Specify)</td>
<td>175H</td>
<td>240, 277</td>
<td>175w Metal Halide E17, PAR38</td>
</tr>
<tr>
<td>I4-HHO*</td>
<td>Housing Only</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Ordering Guide (Fluorescent)**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>(G) Optional Rock Guard (available in bronze or cast bronze only)</th>
<th>Finish (H) Bronze (N) Natural Cast Bronze (SS) Stainless Steel</th>
<th>Optics (FL) Flood (H) Horizontal</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Socket</th>
<th>Minimum Op Temperature</th>
<th>Lamp Life (Hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(Specify)</td>
<td>(Specify)</td>
<td>26PLT</td>
<td>120, 208</td>
<td>GX24q-3</td>
<td>- 20°F</td>
<td>10000</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(Specify)</td>
<td>(Specify)</td>
<td>12PLT</td>
<td>240, 277</td>
<td>GX24q-3</td>
<td>- 27°F</td>
<td>10000</td>
</tr>
<tr>
<td>I4</td>
<td>(G)</td>
<td>(Specify)</td>
<td>(Specify)</td>
<td>42PLT</td>
<td>240, 277</td>
<td>GX24q-4</td>
<td>- 27°F</td>
<td>10000</td>
</tr>
</tbody>
</table>

*When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.

**Photometric Information (175W Metal Halide)**

**Flood (Wall) 2’ setback, 5˚ tilt**

**Spot (Wall) 2’ setback, 5˚ tilt**

**Horizontal (Wall) 2’ setback, 5˚ tilt**

**Flood (Canopy) 30’ setback**

**Spot (Canopy) 30’ setback**

**Horizontal (Canopy) 30’ setback**
INGROUNDS

I5

HOUSING – Single-piece, compression molded, fiberglass-reinforced polyester composite with integral lamp, ballast and junction box compartment with epoxy anti-siphon barrier.

TOP PLATE, LENS FRAME – Dark bronze compression molded polyester; secured with stainless steel screws.

LENS – 3/8” thick clear, high-impact tempered glass; crowned and mounted flush with lens retainer to resist debris accumulation; 1,300-pound live-load rated, standard walk-over lens.

GASKET – Single-piece, molded, ribbed silicone for lens and top plate to provide watertight sealing stem.

SOCKET – Pulse-rated, heavy-duty glazed porcelain for medium and mogul base lamp. Porcelain mogul-end prong socket provided for PAR56 lamp.

REFLECTOR – E17, E28 and T15 vertical lamp specular spun aluminum; reflector for E17 horizontal lamp is combination of hammer tone and specular-formed aluminum. Lamp not included.

ELECTRICAL – HID models: core and coil, high power factor; epoxy dipped for moisture resistance.


ADA COMPLIANT – Compliant when used in concrete and flush mounted with concrete mounting frame I5CMF. ETL, cETL Listed.

ACCESSORIES

I5CMF
Concrete Mounting Frame.

I5CRG
External Cast Rock Guard.
Finish – Dark Bronze Aluminum

I5SRG
External Stainless Wire Guard.

I5HCL
Internal Honeycomb Louver.
Lamp – E17

I5DS
External Directional Shield.
Finish – Dark Bronze Aluminum

I5IGL
Internal Glare Louver.

I5DL
Internal Directional Louver.

I5DSG
External Directional Shield and Rock Guard.
Dark Bronze Aluminum.
I5HFL175H120 Symmetric
Setback = 2 ft.

I5HSP005120 Symmetric
Setback = 3 ft.

Multipliers for other Setbacks

<table>
<thead>
<tr>
<th>Setback (Ft.)</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>8'</th>
</tr>
</thead>
<tbody>
<tr>
<td>70w HPS B17</td>
<td>1.5</td>
<td>.67</td>
<td>.38</td>
<td>.24</td>
<td>.17</td>
<td>.07</td>
</tr>
<tr>
<td>100w HPS B172.5</td>
<td>2.25</td>
<td>1.56</td>
<td>.36</td>
<td>.25</td>
<td>.11</td>
<td></td>
</tr>
<tr>
<td>150w HPS B173.8</td>
<td>3.8</td>
<td>1.75</td>
<td>.56</td>
<td>.43</td>
<td>.19</td>
<td></td>
</tr>
</tbody>
</table>

Note: Fixture aimed 15° toward wall.

Ordering Guide

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>(H) Dark Bronze Composite</th>
<th>Optics</th>
<th>Voltage</th>
<th>Wattage/Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>H</td>
<td>(FL) Flood</td>
<td>120</td>
<td>35w High Pressure Sodium E17</td>
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<td>(SP) Spot</td>
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<td>500I</td>
<td>Up to 500w Incandescent PAR56</td>
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</table>

Note: Fixture aimed 15° toward wall.
Installation of inground fixtures requires special consideration. Proper grading, drainage material and potting of internal wires are procedures that are key to a successful inground installation. The following are basic steps in installing inground fixtures in either concrete (using the concrete pour accessory) or soil installation. For greater detailed instructions, refer to the installation sheet enclosed with each fixture.

Concrete Installation (I4 Shown)

NOTE: To ensure proper drainage, prepare gravel foundation, make certain that the concrete level, when poured, will be flush with the top of the concrete pour accessory.

1. Remove trim ring and all internal components from fixture housing, except for the moisture absorbing desiccant pack attached to the side of the housing. Set aside.

2. Position the fixture housing into the concrete pour accessory, making sure that the underside of the housing flange rests on top of the set screws. Tighten set screws on side of accessory to lock the housing into place (do not over-tighten). Secure assembly to the final location with re-bar or other anchoring device.

3. Excavate soil where the fixture is to be installed. Dig a trench 18” deep for conduit installation.

4. Place assembly into hole. Be sure there is a minimum of three 3” of drainage material (sand or gravel only) covering the bottom of the hole.

5. Install the conduit to housing using a watertight fitting (by others), and pull supply wires through into housing.

6. Press duct seal compound (by others) into wire entryway, and then fill the entire entryway with two-part potting compound (supplied with select fixtures) to seal the conduit entry point from moisture.

7. Place the dirt cover on the fixture to prevent gravel and concrete from falling into the fixture housing.

8. Fill area with a minimum of three 3” of drainage material. Be sure not to fill area flush with top of frame and assembly. This is to be filled with concrete.

9. Pour concrete. Remember that fixture position cannot be altered after the concrete sets.

10. Once the concrete has set and is completely cured, remove dirt cover from fixture and install electrical components. Use silicone wire nuts (by others) to connect supply wire to fixture wire, within housing.

11. Install specified lamp, and then replace gasketed lens, making certain there is no debris between the gasket and the housing. Install trim ring or rock guard per installation instructions.

12. Connect fixture to power source and energize.
**Ground Installation** (L4 Shown)

**NOTE:** Do not place fixture in a below grade location as the fixture will become a sump, collecting dirt and debris, and possibly become submerged in extremely wet conditions. Do not place plantings too close to the fixture as the foliage may grow over the luminaire, blocking the light. Do not allow mulch to touch inground fixture in any way as this may cause the fixture to overheat and fail.

1. Excavate soil for fixture placement and conduit runs, making sure the fixture will be elevated and the grade sloped down from the fixture. Be certain to allow a minimum of three 3” of drainage material (sand or gravel only) under and around the housing.

2. Remove trim ring and all internal components from fixture housing, except for the moisture absorbing dessicant pack attached to the side of the housing. Set aside.

3. After drainage material is installed in the bottom, place fixture housing into hole, back-filling a minimum of 3” of drainage material (sand or gravel only) around the side of the housing. Be certain that the underside of housing flange rests on top of grade level.

4. Install the conduit to housing using a watertight fitting (by others) and pull supply wires through, into housing.

5. Press duct seal compound (by others) into wire entryway, and then fill the entire entryway with two-part potting compound (supplied with select fixtures) to seal the conduit entry point from moisture.

6. Re-install ballast tray. Use silicone wire nuts (by others) to connect supply wire to fixture wire within housing.

7. Re-install balance of electrical components. Plug lamping module into quick connect, if applicable.

8. Install specified lamp, and then replace gasketed lens, making certain there is no debris between the gasket and the housing. Install trim ring or rock guard per installation instructions.

9. Connect fixture to power source and energize.
LINE VOLTAGE
STEPLYTES
Our line voltage steplytes come in a variety of shapes, sizes and lampings for a variety of applications. So you can put strong emphasis on exterior features, such as the architectural detail of a grand entryway.

Or, for low-light environments such as theatres, our LED steplytes allow you to design for safety while preserving atmosphere.
RSB2 POLYCARBONATE

HOUSING – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

TRIM RING – Die-cast aluminum trim contains less than 0.3% copper to resist corrosion.

FINISH – Zinc-rich primer and thermoset powdercoat for durability. Polycarbonate parts are color impregnated.

BUBBLE LENS – UV stabilized injection molded polycarbonate, partially clear for maximum light output.

OPAL FACEPLATE – UV stabilized injection molded polycarbonate with frosted glass siliconed on inside for durability.

LOUVER SCREEN FACEPLATE – Clear UV stabilized injection molded polycarbonate with 45º louvered screen insert.

SOCKET – Single contact bayonet (S-8), medium, G23, GX23-2 base (120 volt) or G24Q-1 base (277 volt).

BALLAST – Fluorescent ballasts are core and coil, NPF Class B, factory wired and tested, rated for 0º C starting temperature. Integral 120/12V transformer is electronic.

WIRING – Pre-wired with high temperature #18 wire.

ADA COMPLIANT – Compliant when used in indoor and outdoor wall applications. ETL, cETL Listed.

RSF2 POLYCARBONATE

RSS2 POLYCARBONATE

ACCESSORIES

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<thead>
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<th>Catalog Number</th>
<th>Description</th>
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<td>Masonry Construction Mounting Kit</td>
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<td>MAKNS</td>
<td>New Stud Wall Construction Mounting Kit</td>
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<tr>
<td>MAKES</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
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Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
ISO Footcandle Conversions

<table>
<thead>
<tr>
<th>Light Source</th>
<th>Mounting Height</th>
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<tr>
<td>PL13 (13w)</td>
<td>3.83</td>
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<tr>
<td>T10 (40w)</td>
<td>1.87</td>
</tr>
<tr>
<td>T141 (36w)</td>
<td>2.25</td>
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RSF2 & RSS2 — Symmetric reflector is precision formed steel with a white reflective coating. The opal lens of the RSF2 offers light levels for stairways and area lighting, or as a marker light source where shielding of the light source is less important. The internal louver of the RSS2 offers lower light levels with cutoff for lighting stairways or general lighting where shielding of the light source is more important than high light levels.

RSB2 — Symmetric reflector is precision formed, semi-specular aluminum or highly polished aluminum (T10 lamping only), which produces a wide symmetric distribution for general area lighting.

Photometric Information

| RSB2 | Distribution: Symmetric | Lamp Wattage: 36W (2-Bayonet) | Mounting Height: 3’ |

Ordering Guide

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Finish (A)</th>
<th>Sym Optics</th>
<th>Lamping</th>
<th>Voltage (E)</th>
<th>Insulation Detector (P)**</th>
<th>Wattage (W)</th>
<th>Socket</th>
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<td>I</td>
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* Lamp Included
**Thermal protection device is required for installations in drywall, plaster, wood or other non-masonry materials and must be ordered as an option, except for fluorescent. Add the suffix “P” to the catalog number to order.
***When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.
**RSC2 ALUMINUM**

**HOUSING** – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**TRIM RING** – Die-cast aluminum trim ring contains less than 0.3% copper to resist corrosion. Cast bronze fixture has polycarbonate, color-impregnated, dark bronze finish.

**FINISH** – Aluminum parts have zinc-rich primer and thermoset powdercoat for durability. Cast bronze has natural finish.

**FACEPLATE** – Die-cast copper-free aluminum with 45° cutoff, with frosted tempered glass. Cast bronze louver is natural cast bronze with frosted tempered glass.

**SOCKET** – Single contact bayonet (S-8), medium, G23, GX23-2 base (120 volt) or G24Q-1 base (277 volt)

**BALLAST** – Fluorescent ballasts are core and coil, NPF Class B, factory wired and tested, rated for 0°C starting temperature. Integral 120/12V transformer is electronic.

**WIRING** – Pre-wired with high temperature #18 wire.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

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**RSV2 ALUMINUM**

**HOUSING** – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**TRIM RING** – Die-cast aluminum trim ring contains less than 0.3% copper to resist corrosion. Cast bronze fixture has polycarbonate, color-impregnated, dark bronze finish.

**FINISH** – Aluminum parts have zinc-rich primer and thermoset powdercoat for durability. Cast bronze has natural finish.

**FACEPLATE** – Die-cast copper-free aluminum with 45° cutoff, with frosted tempered glass. Cast bronze louver is natural cast bronze with frosted tempered glass.

**SOCKET** – Single contact bayonet (S-8), medium, G23, GX23-2 base (120 volt) or G24Q-1 base (277 volt)

**BALLAST** – Fluorescent ballasts are core and coil, NPF Class B, factory wired and tested, rated for 0°C starting temperature. Integral 120/12V transformer is electronic.

**WIRING** – Pre-wired with high temperature #18 wire.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

---

**ACCESSORIES**

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<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
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<td>MAKM</td>
<td>Masonry Construction Mounting Kit</td>
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<tr>
<td>MAKNS</td>
<td>New Stud Wall Construction Mounting Kit</td>
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<tr>
<td>MAKES</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
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Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
ISO Footcandle Conversions

<table>
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<tr>
<th>Light Source</th>
<th>Mounting Height</th>
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<td>PL9 (9w)</td>
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<td>PL13 (13w)</td>
<td>1.83</td>
</tr>
<tr>
<td>T10 (40w)</td>
<td>1.87</td>
</tr>
<tr>
<td>T141 (36w)</td>
<td>2.25</td>
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</table>

Photometric Information

RSC2
- Distribution: Symmetric
- Lamp Wattage: 36W (2-18W) T141
- Mounting Height: 3'

RSC2 – Symmetric reflector is precision formed, steel with a white reflective coating. The cast louver offers lower light levels with cut-off for lighting stairways or general lighting where shielding of the light source is more important than high light levels.

RSV2 – Symmetric reflector is precision formed, semi-specular aluminum or highly polished aluminum, which produces a wide symmetric distribution for general area lighting.

Ordering Guide

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<th>Finish</th>
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<th>Lamping</th>
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<td>9w PL9</td>
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</table>

* Lamp Included

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*** When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.
**CB100 COMPOSITE**

**HOUSING** – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**FINISH** – Aluminum parts have zinc-rich primer and thermoset powdercoat for durability; composite is color impregnated.

**FACEPLATE** – Injection molded Ryton® composite.

**SOCKET** – Medium base or GX23-2 base.

**BALLAST** – Fluorescent ballasts are core and coil, NPF Class B, factory wired and tested, rated for 0° C starting temperature.

**WIRING** – Pre-wired with high temperature #18 wire.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

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**ACCESSORIES**

<table>
<thead>
<tr>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>MAKM</td>
<td>Masonry Construction Mounting Kit</td>
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<tr>
<td>MAKNS</td>
<td>New Stud Wall Construction Mounting Kit</td>
</tr>
<tr>
<td>MAKEC</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
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</tbody>
</table>

Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
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<table>
<thead>
<tr>
<th>Light Source</th>
<th>Mounting Height</th>
</tr>
</thead>
<tbody>
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<td>2.25</td>
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<tr>
<td>T10 (40w)</td>
<td>1.87</td>
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</table>

**Photometric Information**

CB100 - Symmetric reflector is precision formed, steel with a white reflective coating. The cast louver offers lower light levels with cut-off for lighting stairways or general lighting where shielding of the light source is more important than high light levels.

**Ordering Guide**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Finish</th>
<th>Sym Optics</th>
<th>Lamping</th>
<th>Voltage</th>
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<td>GX23-2</td>
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*Thermal protection device is required for installations in drywall, plaster, wood or other non-masonry materials and must be ordered as an option, except for fluorescent. Add the suffix "P" to the catalog number to order.
**ST E P L Y T E S**

**RSB3 POLYCARBONATE**

**HOUSING** – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**TRIM RING** – Die-cast aluminum trim contains less than 0.3% copper to resist corrosion. Cast bronze fixture (RSC3) has polycarbonate, color-impregnated, dark bronze finish.

**FINISH** – Zinc-rich primer and thermoset powdercoat for durability. Cast bronze has natural finish.

**BUBBLE FACEPLATE** – UV stabilized injection molded clear polycarbonate.

**HORIZONTAL LOUVER FACEPLATE** – Die-cast copper-free aluminum with 45° cutoff, with frosted tempered glass. Cast bronze louver is natural cast bronze with frosted tempered glass.

**SOCKET** – All incandescent and HID sockets are medium base. Fluorescent is GX24q-3, T4 is GY6.35 bi-pin.

**BALLAST** – HID ballasts are HPF core and coil, factory wired and tested, mounted to a key-slotted removable tray with quick disconnect for easy installation. 120V/12V integral transformer is electronic. Fluorescent ballast is electronic (−20°F cold weather start).

**WIRING** – Pre-wired with high temperature #18 wire.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications. ETL, cETL Listed.

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**RSC3 ALUMINUM**

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**RSC3 CAST BRONZE**
ISO Footcandle Conversions

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<th>4'</th>
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Rsc3 – Specular aluminum symmetric.

Rsb3 – Highly polished light diffuse aluminum material.

Symmetric reflector is precision formed, light diffuse aluminum for bubble and specular aluminum for louver which produces a wide distribution for general lighting purposes. The RSC3 frosted lens offers lower light levels with cutoff for lighting stairways or general area lighting where shielding of the light source is more important than high light levels.

Asymmetric reflector is made from a combination semi-specular and light diffuse aluminum material and is precision formed, highly polished aluminum, which is field-adjustable for an asymmetric left or right distribution for lighting stairways. PL lamping not available with asymmetric optics.

Photometric Information

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<thead>
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RSC3 – Distribution: Symmetric

Lamp/Wattage: 70W HPS

Mounting Height: 3’

Ordering Guide

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<td>I</td>
<td>E</td>
<td>(Specify)</td>
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<td>Medium</td>
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*Integral Low Voltage Transformer

**Thermal protection device is required for installations in drywall, plaster, wood or other non-masonry materials and must be ordered as an option, except for fluorescent. Add the suffix “P” to the catalog number to order.

***When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.

†Brick, block, or stone installation only.

Accessories

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MAKM</td>
<td>Masonry Construction Mounting Kit</td>
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<tr>
<td>MAKNS</td>
<td>New Stud Wall Construction Mounting Kit</td>
</tr>
<tr>
<td>MAKES</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
</tr>
</tbody>
</table>

Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
**EWB4 ALUMINUM**

**HOUSING** – Semi-recessed water tight die-cast aluminum with polycarbonate lens. Hinges allow for easy re-lamping.

**FASTENERS** – Captive, black oxide stainless steel, tamper resistant.

**GASKET** – Single piece molded silicone

**SOCKET** – Medium base socket is porcelain, 4kv pulse rated. Bi-pin socket is porcelain.

**REFLECTOR** – Removable, field-adjustable symmetric/asymmetric specular aluminum reflector assembly.

**LENS** – Injection molded, UV stabilized polycarbonate lens with silicone gasketing.

**BALLAST MODULE** – Electrical components are mounted to a key-slotted removable tray with a quick disconnect for easy installation and replacement.

**BALLAST** – Ballast is factory wired and tested. HPF. Starting temperature -20°F.

**WIRING COMPARTMENT** – One (1) 1/2” NPT conduit tap on the back; two (2) 3/4” NPT taps on the bottom and one (1) 3/4” NPT tap on each side for easy through-wiring.

**MOUNTING** – Hardware and template for concrete pour is supplied. Mounting kits for masonry (MAKM) and new (MAKNS) or existing stud walls (MAKES) may be ordered as accessories. An insulation protector is required for installations in drywall, plaster, wood or other non-masonry materials and must be ordered as an option.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

### Accessories

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Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
**Ordering Guide**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
<th>Voltage</th>
<th>Insulation Protection (Optional)</th>
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<td>EWB4050MH</td>
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<td>(Specify)</td>
<td>50w, E17 MH</td>
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*Insulation protector is required for installations in drywall, plaster, wood or other non-masonry materials and must be ordered as an option – add the suffix “P” to the catalog number. Available in 120/277V only.

**Available in 50, 70, 100 HPS and 70, 100 MH only.
**EWR4 ALUMINUM**

**HOUSING** – Semi-recessed water tight die-cast aluminum with glass lens. Hinges allow for easy re-lamping.

**FASTENERS** – Captive, black oxide stainless steel, tamper resistant.

**SOCKET** – HID models, porcelain socket is medium base, 4kv pulse rated, or porcelain bi-pin. Fluorescent model, 32 watt socket is GX24q-3; 42 watt socket is GX24q-4.

**GASKET** – Single-piece molded silicone.

**REFLECTOR** – Specular aluminum segmented reflector assembly.

**LENS** – Frosted tempered glass lens with silicone gasketing.

**BALLAST MODULE** – Electrical components are mounted to a key-slotted removable tray with a quick disconnect for easy installation and replacement.

**BALLAST** – Ballast is factory wired and tested. HPF. Starting temperature -20˚F.

**WIRING COMPARTMENT** – One (1) 1/2” NPT conduit tap on the back, two (2) 3/4” NPT taps on the bottom and one (1) 3/4” NPT tap on each side for easy through-wiring.

**MOUNTING** – Hardware and template for concrete pour is supplied. Mounting kits for masonry (MAKM) and new (MAKNS) or existing stud walls (MAKES) may be ordered as accessories. An insulation protector is required for installations in drywall, plaster, wood or other non-masonry materials and must be ordered as an option.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

**ACCESSORIES**

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<tr>
<td>MAKES</td>
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</table>

Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
**PHOTOMETRIC INFORMATION**

Symmetric Distribution
100w, E17 MH

Mounting Height: 3'

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**LAMP MULTIPLIER**

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**ORDERING GUIDE**

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*Insulation protector is required for installations in drywall, plaster, wood or other non-masonry materials with the exception of fluorescent lamping and must be ordered as an option – add the suffix “P” to the catalog number. Available in 120/277v only.

**Available in 50, 70, 100 HPS and 70, 100 MH only.**
**RRB1 POLYCARBONATE**

**HOUSING** – Aluminum die-casting containing less than 0.3% copper to prevent corrosion in concrete applications.

**SOCKET** – Sockets are pre-wired with high temperature #18 wire.

**FASTENERS** – Captive, black oxide stainless steel.

**GASKET** – Single-piece molded silicone to prevent water, dust, and insect infiltration.

**LENS** – RRB1: UV stabilized injection molded clear polycarbonate bubble lens, allowing positioning of lamp to project out of the wall enabling an efficient wide distribution. RRC1: Tempered glass spread lens for uniform light distribution. RRF1: UV stabilized injection molded opal polycarbonate allowing 80% light transmission for general lighting applications or where a marker is required.

**REFLECTOR** – Reflector is formed from highly reflective aluminum.

**WIRING COMPARTMENT** – Internal wiring compartment contains two (2) 1/2” NPT conduit taps in the bottom and one (1) 1/2” NPT conduit tap in both sides. A removable plug will be provided for one (1) tap.

**CAST LOUVER** – Die-cast aluminum, offering 45º shielding.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications. ETL, cETL Listed.

---

**ACCESSORIES**

<table>
<thead>
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<th>Catalog Number</th>
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</thead>
<tbody>
<tr>
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<td>MAKES</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
</tr>
</tbody>
</table>

Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.
### Photometric Information

**RRB** – Bubble lens offers efficient wide distribution.
- Distribution: Symmetric
- Lamp/Wattage: 15w T7
- Mounting Height: 2’

**RRC** – Cast louver and frosted lens offer lower light levels with cutoff for lighting stairways or general area lighting where shielding of the light source is more important than high light levels.
- Distribution: Symmetric
- Lamp/Wattage: 15w T7
- Mounting Height: 2’

**RRF** – Opal lens is used as a marker or for general lighting.
- Distribution: Symmetric
- Lamp/Wattage: #93
- Mounting Height: 2’

### Ordering Guide

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Finish</th>
<th>Insulation Detector</th>
<th>Face Plate</th>
<th>Voltage</th>
<th>Max. Wattage</th>
<th>Lamping</th>
<th>Socket</th>
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<td>15w</td>
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<td>T7</td>
<td>Double Contact Bay</td>
</tr>
</tbody>
</table>

*Insulation protector is required for installations in drywall, plaster, wood or other non-masonry materials with the exception of fluorescent lamping and must be ordered as an option – add the suffix “P” to the catalog number.*
**RRB3 POLYCARBONATE**

**HOUSING** – Die-cast aluminum back box contains less than 0.3% copper to prevent corrosion in concrete or masonry applications.

**TRIM RING** – Die-cast aluminum trim contains less than 0.3% copper to resist corrosion.

**FINISH** – Aluminum parts have zinc-rich primer and thermoset powdercoat for durability.

**BUBBLE FACEPLATE** – UV stabilized injection molded clear polycarbonate.

**HORIZONTAL LOUVER FACEPLATE** – Die-cast copper-free aluminum with 45° cut off, with frosted tempered glass.

**SOCKET** – All incandescent and HID sockets are medium base. Fluorescent is GX24q-3 and GX24q-4. T4 is GY6.35 bi-pin.

**BALLAST** – HID ballasts are HPF core and coil, factory wired and tested, mounted to a key-slotted removable tray with quick disconnect for easy installation. 120V/12V integral transformer is electronic. Fluorescent ballast is electronic (-20°F cold weather start).

**WIRING** – Pre-wired with high temperature #18 wire.

**ADA COMPLIANT** – Compliant when used in indoor and outdoor wall applications.

ETL, cETL Listed.

---

**RRC3 ALUMINUM**

**Front View**

**Side View**

**Bottom View**
### ISO Footcandle Conversions

<table>
<thead>
<tr>
<th>Light Source</th>
<th>Mounting Height 2'</th>
<th>2.5'</th>
<th>3'</th>
<th>3.5'</th>
<th>4'</th>
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<tbody>
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<tr>
<td>50w MH</td>
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<td>26w PL</td>
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<tr>
<td>60w A19</td>
<td>0.59</td>
<td>0.38</td>
<td>0.26</td>
<td>0.15</td>
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<td>0.66</td>
<td>0.42</td>
<td>0.29</td>
<td>0.16</td>
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</tr>
</tbody>
</table>

### Ordering Guide

#### Catalog Number
- **RRC3**
- **RRB3**

#### Finish
- (A) Black
- (B) White
- (H) Bronze

#### Optics
- T5 Sym
- T3 Asym
- KS Sym

#### Lamping
- (Specify) K5
- (Specify) K5
- (Specify) K5
- (Specify) K5
- (Specify) K5
- (Specify) K5

#### Voltage
- 120 Volt (E) 277 Volt

#### Insulation Detector
- (Specify) E
- (Specify) S
- (Specify) X
- (Specify) V
- (Specify) F26
- (Specify) K5
- (Specify) I
- (Specify) (Specify) T
- (Specify) (Specify) F26
- (Specify) n/a
- (Specify) n/a
- (Specify) n/a
- (Specify) n/a
- (Specify) n/a

#### Wattage
- 50w T4
- 50w MH
- 35w HPS
- 50w HPS
- 26w CFL
- 32w CFL
- 42w CFL
- 60w A19

#### Socket
- Bi-Pin GY6.35
- Medium
- Medium
- Medium
- Medium
- Medium
- GX24q-3
- GX24q-3
- GX24q-4
- Medium

#### Accessories

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MAKM</td>
<td>Masonry Construction Mounting Kit</td>
</tr>
<tr>
<td>MAKNS</td>
<td>New Stud Wall Construction Mounting Kit</td>
</tr>
<tr>
<td>MAKES</td>
<td>Existing Stud Wall Construction Mounting Kit</td>
</tr>
</tbody>
</table>

Note: All units supplied with mounting hardware for concrete pour installation. If other mounting kits are required, order accessory above.

### Photometric Information

**RRB3**
- **Distribution:** Symmetric
- **Lamp/Wattage:** 50w MH
- **Mounting Height:** 3’

**RR3-AHo***
- **Finish:** Black
- **Accommodation:** Housing Only for Pre-shipment

**RR3-BHo***
- **Finish:** White
- **Accommodation:** Housing Only for Pre-shipment

**RR3-HHo***
- **Finish:** Bronze
- **Accommodation:** Housing Only for Pre-shipment

---

*Integral Low Voltage Transformer

**Thermal protection device is required for installations in drywall, plaster, wood or other non-masonry materials and must be ordered as an option, except for fluorescent. Add the suffix ‘P’ to the catalog number to order.

***When housing only is ordered for pre-shipment, add suffix “LH” (Less Housing) to complete catalog number to order fixture without housing.

† Brick, block, or stone installation only.
**INSTALLATION FOR NEW STUD WALL**
(Use Accessory Kit #MAKNS)
1. Using the supplied template, cut a level hole through the existing wall between studs. (Failure to level hole will cause fixture to have tilted appearance.)
2. Mount L-brackets onto top and bottom of housing with screws positioned in center of slots.
3. Insert cross brackets through L-brackets.
4. Position fixture so the back of the finishing ring extends past the studs the thickness of the wallboard.
5. Level fixture and hammer tabs on cross brackets into studs. Nail brackets securely to studs.
6. Fine adjust fixture position and tighten any loose screws.
7. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
8. Remove finishing ring by removing flathead screws.
9. Install wallboard.
10. Replace finishing ring.
11. Install thermal protector (attached to electrical chassis).

**INSTALLATION FOR EXISTING STUD WALL**
(Use Accessory Kit #MAKES)
1. Using the supplied template, cut a level hole through the existing wall between studs. (Failure to level hole will cause fixture to have tilted appearance.)
2. Push the mounting screws through the housing holes and into rear channels. (Note: a thin membrane covers the housing holes and may require forcing the screws through by tapping them lightly with a hammer.)
3. Place flags flat on rear of housing. Thread screws into and through the flags.
4. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing. (Through wiring not recommended.)
5. Remove wiring compartment screw and wiring compartment from housing.
6. Push housing into the hole in the wall.
7. Tighten the mounting screws until the flag fasteners are drawn tight against the inner surface of the wall.
8. Replace wiring compartment in its original position and replace screw.
9. Install thermal protector (attached to electrical chassis).

**INSTALLATION FOR CONCRETE POUR**
(Hardware included with each fixture)
1. Level supplied template on wood support frame and drill 3/16” diameter clearance holes as marked.
2. Remove the 1/2” NPT plugs from the sides/bottom of the housing.
3. Install plastic protective shield (if supplied) into housing.
4. Pull the supply wire through into the housing. (Through wiring not recommended.) Be sure all unused electrical plugs are replaced. Finishing ring may be removed now and replaced after concrete pour.
5. Secure housing to wood support with screws supplied in hardware packet.
6. Pour concrete.
7. If finishing ring was removed, replace it and tighten flathead screws. If screws are not tight, fixture may leak.

**INSTALLATION FOR MASONRY**
(Use Accessory Kit #MAKM)
1. Install screw through washer and lower masonry brackets and into tapped housing hole on bottom of fixture.
2. Remove the 1/2” NPT plugs from the sides/bottom of the housing and pull the supply wire through into the housing.
3. Press fixture and lower masonry brackets into layer of mortar so that mortar comes through the holes of the brackets.
4. After laying another course of blocks, install the two upper masonry brackets onto the housing as in Step 1.
**INSTALLATION FOR NEW OR EXISTING STUD WALL**

(Use Accessory Kit #MAKES)

1. Using the supplied template, cut a level hole through the existing wall between studs. (Failure to level hole will cause fixture to have tilted appearance.)
2. Push the four (4) mounting screws through the housing holes and into rear channels. (Notes: a thin membrane covers the housing holes and may require forcing the screws through by tapping them lightly with a hammer.)
3. Place flags flat on rear of housing. Thread screws into and through the flags.
4. Remove the desired 1/2” NPT plugs from the side(s)/back/bottom of the housing and pull the supply wire through into the housing.
5. Be sure to use proper connections per NEC and local codes.
6. Push housing into the hole in the wall.
7. Tighten the mounting screws until the flag fasteners are drawn tight against the inner surface of the wall.
8. Install thermal protector.

**INSTALLATION FOR CONCRETE POUR**

(Hardware included with each fixture)

1. Level supplied template on wood support frame and drill four (4) 3/16” diameter clearance holes as marked. (Failure to level template will cause the fixture to have a tilted appearance.)
2. Remove the desired 1/2” NPT plug(s) from the side(s)/back/bottom of the housing and pull the supply wire through into the housing.
3. Be sure to use proper connections per NEC and local codes.
4. Install the protective cover (if supplied) on the housing and make sure all unused electrical plugs are replaced.
5. Secure housing to wood support with screws supplied in hardware packet.
6. Pour concrete.

**INSTALLATION FOR MASONRY**

(Use Accessory Kit #MAKM)

1. Install two (2) screws through washers and lower masonry brackets and into tapped holes on bottom of the housing.
2. Remove desired NPT plug(s) from the side(s)/back/bottom of the housing and pull the supply wire through into the housing.
3. Be sure to use proper connections per NEC and local codes.
4. Press housing with lower masonry brackets into the mortar so that mortar comes through the holes of the brackets.
5. Continue laying block until level with the top of the fixture. Install the two upper masonry brackets into the housing as in Step 1.
6. Finish laying mortar and block over top of the fixture.
LINE VOLTAGE
WALKWAY LIGHTING
Our line voltage pathlytes, bollards and beacons unlock the options for all types of residential and commercial applications.

In this section, you’ll find forms and functions finely suited for all types of environments: from public courtyard and university campus to secluded backyard promenade.

Our variety of finishes and materials ensure that our walkway fixtures will blend into your environment … or stand out and make a statement.
**MU5 ALUMINUM**

**MU5-A** Black  
**MU5-H** Bronze  
**MU5-T** Speckled Stone  
**MU5-G** Verde  
**MU5-OM** Old Marble  
**MU5-U** Sienna

- 120 Volt
- 100 watt maximum
- A19 Lamp
- 1/2” NPS fitter

**HOUSING** – Die-cast aluminum with stainless steel hinges and spring latch providing tool-less entry.

**FINISH** – Black, bronze, speckled stone or sienna thermoset powdercoat. Hand-rubbed verde antiqued over black powdercoat, or old marble with 3 different hand-applied finishes over dark red thermoset powdercoat.

**LENS** – Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** – Porcelain medium base.

**WIRING** – Incandescent pre-wired with high temperature #18 wire.

ETL, cETL Listed.

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V, 100W A19</td>
<td>9.62</td>
<td>6.46</td>
<td>4.17</td>
<td>2.60</td>
<td>1.70</td>
<td>1.05</td>
<td>0.65</td>
<td>-</td>
<td>-</td>
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</table>

**Recommended Spacing - MU5 - 10’**

Horizontal footcandles

- 9” [229mm]
- 25” [635mm]

---

**MU5 BRASS**

**MU5-N** Natural Brass  
**MU5-OB** Oiled Brass

- 120 Volt
- 100 watt maximum
- A19 Lamp
- 1/2” NPS fitter

**HOUSING** – Die-cast brass with stainless steel hinges and spring latch providing tool-less entry.

**FINISH** – Natural brass or oiled brass.

**LENS** – Frosted, tempered glass sprinkler shield with molded silicone gaskets.

**SOCKET** – Porcelain medium base.

**WIRING** – Incandescent pre-wired with high temperature #18 wire.

ETL, cETL Listed.

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
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<tbody>
<tr>
<td>120V, 100W A19</td>
<td>9.62</td>
<td>6.46</td>
<td>4.17</td>
<td>2.60</td>
<td>1.70</td>
<td>1.05</td>
<td>0.65</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Recommended Spacing - MU5 - 10’

Horizontal footcandles

- 9” [229mm]
- 25” [635mm]
MU3 ALUMINUM

MU3-A Black
MU3-H Bronze
MU3-U Sienna

• 120 Volt
• 150 watt maximum
• A21 Lamp
• 1/2” NPS fitter

HOUSING — Die-cast aluminum roof and lamp holder with aluminum stem.
FINISH — Black, bronze, speckled stone or sienna thermoset powdercoat. Hand-rubbed verde antiqued over black thermoset powdercoat.
SOCKET — Porcelain medium base.
WIRING — Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

Recommended Spacing - MU3 - 17’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
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<th>7’</th>
<th>8’</th>
<th>9’</th>
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</thead>
<tbody>
<tr>
<td>120V, 150W A21</td>
<td>58</td>
<td>38</td>
<td>14</td>
<td>6.4</td>
<td>3.6</td>
<td>2.0</td>
<td>1.0</td>
<td>0.5</td>
<td>0.2</td>
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</table>

TU3 ALUMINUM

TU3-G Verde

• 120 Volt
• 100 watt maximum
• A19 Lamp
• 1/2” NPS fitter

HOUSING — One-piece cast aluminum with aluminum stem.
FINISH — Hand-rubbed verde antiqued over black thermoset powdercoat.
SOCKET — Porcelain medium base.
WIRING — Incandescent fixtures are pre-wired with high temperature #18 wire.

ETL, cETL Listed.

Recommended Spacing - TU3 - 13’

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
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<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>9’</th>
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</thead>
<tbody>
<tr>
<td>120V, 100W A19</td>
<td>15.6</td>
<td>9.3</td>
<td>4.6</td>
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<td>0.5</td>
<td>0.3</td>
<td>0.1</td>
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</table>

10-5/16” [262mm]
36” [915mm]
7-1/4” [183mm]
24” [610mm]
T39 ALUMINUM
T39-G Verde  T39-OM Old Marble
• 120 Volt  • 100 watt maximum
• A19 Lamp  • 1/2” NPS fitter
• Stem not included, order separately
HOUSING – Die-cast aluminum construction.
FINISH – Hand-rubbed verde antiqued over black thermoset powdercoat, or old marble with 3 different hand-applied finishes over dark red thermoset powdercoat.
SOCKET – Porcelain medium base.
WIRING – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

Optional Stems
Catalog No.  Finish  Description
S12  (Specify)*  Stem-12”, 1/2” NPS
S24  (Specify)*  Stem-24”, 1/2” NPS
S36  (Specify)*  Stem-36”, 1/2” NPS

*Specify Finishes: G-Verde (shown), OM-Old Marble

Recommended Spacing - T39 - 10’ Horizontal Footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
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</thead>
<tbody>
<tr>
<td>120L 100W A19</td>
<td>185</td>
<td>5.4</td>
<td>1.8</td>
<td>8</td>
<td>25</td>
<td>30</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

TR5 ALUMINUM
TR5-G Verde  TR5-OM Old Marble
• 120 Volt  • 100 watt maximum
• A19 Lamp  • 1/2” NPS fitter
HOUSING – Die-cast aluminum with stainless steel hinges and spring latch provide tool-less entry.
FINISH – Hand-rubbed verde antiqued over black thermoset powdercoat, or old marble with 3 different hand-applied finishes over dark red thermoset powdercoat.
LENS – Frosted, tempered glass sprinkler shield with molded silicone gaskets.
SOCKET – Porcelain medium base.
WIRING – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

Recommended Spacing - TR5 - 13’ Horizontal Footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>6’</th>
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<th>9’</th>
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</thead>
<tbody>
<tr>
<td>120L 75W A19</td>
<td>174</td>
<td>6.1</td>
<td>3.5</td>
<td>20</td>
<td>10</td>
<td>4</td>
<td>8</td>
<td>1</td>
<td>-</td>
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</tbody>
</table>

A42 ALUMINUM
A42-G Verde  A42-OM Old Marble
A42-T Speckled Stone  A42-U Sienna
• 120 Volt  • 60 watt maximum
• A19 Lamp  • 1/2” NPS fitter
• Stem not included, order separately
FINISH – Hand-rubbed verde antiqued over black thermoset powdercoat, or old marble with 3 different hand-applied finishes over dark red thermoset powdercoat. Speckled stone, or sienna thermoset powdercoat.
LENS – Opalescent glass panels, removable for cleaning.
SOCKET – Porcelain medium base.
WIRING – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

Optional Stems
Catalog No.  Finish  Description
S12  (Specify)*  Stem-12”, 1/2” NPS
S24  (Specify)*  Stem-24”, 1/2” NPS
S36  (Specify)*  Stem-36”, 1/2” NPS

*Specify Finishes: G-Verde (shown), OM-Old Marble T-Speckled Stone, U-Sienna

Recommended Spacing - A42 - 14’ Horizontal Footcandles

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
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<th>4’</th>
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<th>6’</th>
<th>7’</th>
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<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>120L 60W A19</td>
<td>123</td>
<td>5.8</td>
<td>2.4</td>
<td>12</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>-</td>
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</tbody>
</table>

PATHLYTES
**A43 ALUMINUM**

- **A43-G Verde**
- **A43-OM Old Marble**
- **A43-T Speckled Stone**
- **A43-U Senna**

- 120 Volt
- A19 Lamp
- Stem not included, order separately


**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat, or old marble with 3 different hand-applied finishes over dark red thermoset powdercoat. Speckled stone, or senna thermoset powdercoat.

**LENS** – Opalescent glass panels, removable for cleaning.

**SOCKET** – Medium base.

**WIRING** – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

---

**R3 ALUMINUM**

- **R3-G Verde**
- **R3-OM Old Marble**
- **R3-T Speckled Stone**
- **R3-U Senna**

- 120 Volt
- 100 watt maximum
- A19 Lamp
- 1/2" NPS fitter

**HOUSING** – Die-cast aluminum construction. Stem included.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat.

**LENS** – Painted, molded glass with clear top.

**SOCKET** – Medium base.

**WIRING** – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

---

**P3 ALUMINUM**

- **P3-G Verde**
- **P3-OM Old Marble**
- **P3-T Speckled Stone**
- **P3-U Senna**

- 120 Volt
- 75 watt maximum
- A19 Lamp
- 1/2" NPS fitter

**HOUSING** – Die-cast aluminum construction. Stem included.

**FINISH** – Hand-rubbed verde antiqued over black thermoset powdercoat.

**LENS** – Painted, molded glass with clear top.

**SOCKET** – Medium base.

**WIRING** – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

---

### Optional Stems

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S12</td>
<td>(Specify)*</td>
<td>Stem-12&quot;, 1/2&quot; NPS</td>
</tr>
<tr>
<td>S24</td>
<td>(Specify)*</td>
<td>Stem-24&quot;, 1/2&quot; NPS</td>
</tr>
<tr>
<td>S36</td>
<td>(Specify)*</td>
<td>Stem-36&quot;, 1/2&quot; NPS</td>
</tr>
</tbody>
</table>

*Specify Finishes: G-Verde (shown), OM-Old Marble, T-Speckled Stone, U-Senna

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### Recommended Spacing - A43 - 14'

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>A19, 60W</td>
<td>112.5</td>
<td>58</td>
<td>24</td>
<td>12</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

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### Recommended Spacing - R3 - 10'

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V, 100W</td>
<td>195</td>
<td>5.4</td>
<td>1.8</td>
<td>.6</td>
<td>.25</td>
<td>.08</td>
<td>-</td>
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</tbody>
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### Recommended Spacing - P3 - 9'

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1'</th>
<th>2'</th>
<th>3'</th>
<th>4'</th>
<th>5'</th>
<th>6'</th>
<th>7'</th>
<th>8'</th>
<th>9'</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V, 75W A19</td>
<td>15.0</td>
<td>4.0</td>
<td>1.0</td>
<td>.4</td>
<td>.1</td>
<td>.05</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
**P39 ALUMINUM**

P39-K Garden Green

- 120 Volt
- A19 Lamp
- Stem not included, order separately


**FINISH** – Garden green thermoset powdercoat.

**LENS** – Clear molded glass.

**SOCKET** – Medium base.

**WIRING** – Incandescent fixtures are pre-wired with high temperature #18 wire.

**Recommended Spacing - P39 - 14’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
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<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
</tr>
</thead>
<tbody>
<tr>
<td>120V, 75W A19</td>
<td>85</td>
<td>60</td>
<td>22</td>
<td>9</td>
<td>3</td>
<td>2</td>
<td>.1</td>
<td>.1</td>
<td>.1</td>
</tr>
</tbody>
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Optional Stems

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>S12-K</td>
<td>Garden Green</td>
<td>Stem-12”, 1/2” NPS</td>
</tr>
<tr>
<td>S24-K</td>
<td>Garden Green</td>
<td>Stem-24”, 1/2” NPS</td>
</tr>
<tr>
<td>S36-K</td>
<td>Garden Green</td>
<td>Stem-36”, 1/2” NPS</td>
</tr>
</tbody>
</table>

**Q39 ALUMINUM**

Q39-K Garden Green

- 120 Volt
- 100 watt maximum
- A19 Lamp
- 1/2” NPS fitter
- Stem not included, order separately


**FINISH** – Garden green thermoset powdercoat.

**LENS** – Clear molded glass.

**SOCKET** – Medium base.

**WIRING** – Pre-wired with high temperature #18 wire.

**Recommended Spacing - Q39 - 14’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
<th>1’</th>
<th>2’</th>
<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
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</thead>
<tbody>
<tr>
<td>120V, 100W A19</td>
<td>82</td>
<td>82</td>
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<td>Stem-12”, 1/2” NPS</td>
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<tr>
<td>S24-K</td>
<td>Garden Green</td>
<td>Stem-24”, 1/2” NPS</td>
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<td>S36-K</td>
<td>Garden Green</td>
<td>Stem-36”, 1/2” NPS</td>
</tr>
</tbody>
</table>
**R39 ALUMINUM**

R39-K Garden Green
- 120 Volt
- 100 watt maximum
- A19 Lamp
- 1/2” NPS fitter
- Stem not included, order separately


**FINISH** – Garden green thermoset powdercoat.

**LENS** – Clear molded glass.

**SOCKET** – Medium base.

**WIRING** – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

---

Optional Stems

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Finish</th>
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<tbody>
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<tr>
<td>S24-K</td>
<td>Garden Green</td>
<td>Stem-24&quot;, 1/2&quot; NPS</td>
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<tr>
<td>S36-K</td>
<td>Garden Green</td>
<td>Stem-36&quot;, 1/2&quot; NPS</td>
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Recommended Spacing - **R39 - 12’**

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<tbody>
<tr>
<td>120L, 100W A19</td>
<td>11.0</td>
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<td>1.6</td>
<td>1.4</td>
<td>1.2</td>
<td>1.0</td>
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**QF59 ALUMINUM**

QF59-K Garden Green
- 120 Volt
- 13 watt maximum
- PL13 Lamp (fluorescent)
- Stem not included, order separately


**FINISH** – Garden green thermoset powdercoat.

**LENS** – Clear molded glass.

**SOCKET** – GX23-2 base.

**BALLAST** – Core and coil, NPF Class B, rated for 0°C operating temperature.

**WIRING** – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

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Optional Stems

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<tr>
<td>S24-K</td>
<td>Garden Green</td>
<td>Stem-24&quot;, 1/2&quot; NPS</td>
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<td>S36-K</td>
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Recommended Spacing - **QF59 - 12’**

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<th>9’</th>
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**R30 ALUMINUM**

R30-A Black
- 120 Volt
- 100 watt maximum
- A19 Lamp


**FINISH** – Black thermoset powdercoat.

**LENS** – Clear molded glass.

**SOCKET** – Medium base.

**WIRING** – Pre-wired with high temperature #18 wire.

ETL, cETL Listed.

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Recommended Spacing - **R30 - 14’**

<table>
<thead>
<tr>
<th>Volt/Lamp</th>
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<th>3’</th>
<th>4’</th>
<th>5’</th>
<th>6’</th>
<th>7’</th>
<th>8’</th>
<th>9’</th>
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<td>1.6</td>
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**Recommended Spacing**

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<thead>
<tr>
<th>Horizontal footcandles</th>
<th>8-5/8” [220mm]</th>
<th>10-1/8” [257mm]</th>
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<tr>
<td>8-5/8” [220mm]</td>
<td>6” [152mm]</td>
<td>11-5/16” [287mm]</td>
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<td>10-1/8” [257mm]</td>
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**Optional Stems**

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<td>Garden Green</td>
<td>Stem-36&quot;, 1/2&quot; NPS</td>
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</table>
BOLLARDS

**CL81 ALUMINUM**

**UPPER HOUSING** – Die-cast aluminum. Head assembly is mounted directly to lower housing with stainless steel screws. Available in three styles: cone, dome, or hexagonal style.

**LOWER HOUSING** – Constructed of 8" diameter extruded aluminum (1/8" walls).

**OPTICS** – Die-cast aluminum louvers with tempered ribbed glass. 180° house side shield is supplied with each fixture (optional use).

**GASKET** – Molded silicone gasket seals glass and prevents moisture intrusion into the fixture.

**FINISH** – Highly weather-resistant CraftStone™ finish bonded to the aluminum substrate, or durable thermoset polyester powdercoat applied after a five-stage conversion cleaning process. Note: louvers on CraftStone™ finishes are powdercoated white. Additional finishes, consult factory.


**ELECTRICAL** – Standard quad-volt core and coil mounted on removable ballast bracket, with quick connect harness, high power factor; dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

**MOUNTING** – Internal cast aluminum plate is secured to anchor foundation by four (4) 3/8"-16 galvanized steel bolts and nuts. Before installing anchor bolts, contact factory for latest mounting template. A twist-lock action mates mounting casting with lower bollard casting, which is welded to the bottom of the bollard extrusion. One (1) set screw is used to lock the casting in place.

**VOLTAGE CAUTION** – Some local interpretation of the NEC Section 210-6 only permit the use of 120 volt fixtures when they are mounted below 8’. Check with local authorities before specifying alternate voltages.

ETL, cETL Listed.

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**CL82 ALUMINUM**

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**CL83 ALUMINUM**

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**PHOTOMETRIC INFORMATION**

<table>
<thead>
<tr>
<th>IsFOOTCANDLES</th>
<th>Bronze Louvers Optics</th>
<th>White Louver Optics</th>
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</table>

*Accepts 26,32 and 42w PTL lamps.

**ORDERING GUIDE**

- **Finish**
  - (A) Black
  - (B) White
  - (H) Bronze
  - (L) Limestone
  - (S) Sandstone
  - (AO) Clear, Symmetric

- **Lens and Distribution**
  - (E) 120
  - (F) 208
  - (G) 240
  - (H) 277
  - (K) 347

- **Wattage**
  - 100
  - 42F*
  - 70S
  - 100S
  - 50H
  - 70H
  - 100H

- **Description**
  - 100w INC
  - A19/Medium
  - 42w CFL
  - GX24q-4
  - 70w HPS
  - E17/Medium
  - 100w HPS
  - E17/Medium
  - 50w MH
  - E17/Medium
  - 70w MH
  - E17/Medium
  - 100w MH
  - E17/Medium

*Specify* all required information.

---

**Mounting Guide**

- Use this arrow to orient fixture.
- 4-3/4” [121mm] Bolt Circle.
- 3-1/4” Max. [83mm] Conduit Area.

**Curb, House, Path Mounting Base**

- 2-1/2” [64mm] Projection.
- 1” [26mm] Projection.

---

**Photometric Information**

<table>
<thead>
<tr>
<th>IsFOOTCANDLES</th>
<th>Bronze Louvers Optics</th>
<th>White Louver Optics</th>
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<tr>
<td>16</td>
<td>0.0 0.2 0.1</td>
<td>0.0 0.2 0.1</td>
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</tbody>
</table>

*Accepts 26,32 and 42w PTL lamps.
**BOLLARDS**

**DB14 ALUMINUM**

**UPPER HOUSING/LOUVERS** – Die-cast aluminum. Head assembly is mounted to lower housing with three (3) stainless steel screws.

**LOWER HOUSING** – Constructed of 5” extruded aluminum (1/8” wall).

**LENS** – Clear molded glass, threaded against silicone gasket for tight seal.

**GASKET** – Flat silicone gasket.

**FINISH** – Highly weather resistant CraftStone™ finish bonded to the aluminum substrate or durable powdercoat finish electrostatically applied and bonded by heat fusion thermosetting. Consult factory for additional finishes.

**SOCKET** – Incandescent and HID: medium base. Fluorescent: GX24q-3 or GX24q-4 base.

**REFLECTOR** – Highly reflective white paint on spun aluminum rings, mounted on the underside of louvers.

**ELECTRICAL** – Standard quad-volt core and coil mounted on removable ballast bracket, with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

**MOUNTING** – Lower casting is secured to anchor foundation by three (3) galvanized steel bolts and nuts. Before installing anchor bolts, contact factory for latest mounting template.

**VOLTAGE CAUTION** – Some local interpretation of the NEC Section 210-6 only permits the use of 120 volt fixtures when they are mounted below 8’. Check with local authorities before specifying alternate voltages.

ETL, cETL Listed.

---

**DB14**

**Dimensions:**

- **Height:** 5-15/16” [151 mm]
- **Diameter:** 1-1/2” [37 mm]

---

**DB21**

**Dimensions:**

- **Height:** 5-15/16” [151 mm]
- **Diameter:** 1” [25 mm] (1-1/4” [32 mm] with louvers)

---

**DB30**

**Dimensions:**

- **Height:** 32-1/16” [815 mm]
- **Diameter:** 1-1/2” [37 mm]

---
### Photometric Information

![Photometric Information Diagram](image)

### Mounting Template

![Mounting Template Diagram](image)

### Product Selection Guide (Incandescent)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Finish</th>
<th>Max Wattage</th>
<th>Lamp</th>
<th>Socket</th>
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<tr>
<td>DB14-H</td>
<td>14&quot; Mini Bollard, Incandescent</td>
<td>Bronze</td>
<td>100w</td>
<td>A19</td>
<td>Medium Base</td>
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<tr>
<td>DB21-H</td>
<td>21&quot; Mini Bollard, Incandescent</td>
<td>Bronze</td>
<td>100w</td>
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<td>DB30-H</td>
<td>30&quot; Bollard, Incandescent</td>
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### Ordering Guide

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<th>Finish</th>
<th>Lens and Distribution</th>
<th>Wattage</th>
<th>Voltage</th>
<th>Description</th>
<th>Lamp/Socket</th>
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<tr>
<td>DB14</td>
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<td>(A) Black</td>
<td>100I</td>
<td>(E Only)</td>
<td>100w INC</td>
<td>A19/Medium</td>
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<tr>
<td>DB21</td>
<td>(Specify)</td>
<td>(H) Bronze</td>
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<td>(E Only)</td>
<td>100w INC</td>
<td>A19/Medium</td>
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<td>DB21</td>
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<td>(L) Limestone</td>
<td>42F*</td>
<td>(E,F,G,H)</td>
<td>42w CFL</td>
<td>GX24q-4</td>
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<td>(Specify)</td>
<td>(S) Sandstone</td>
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<td>100w HPS</td>
<td>E17/Medium</td>
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</tbody>
</table>

*Accepts 26,32 and 42w PTL lamps.*
BOLLARDS

RB30 ALUMINUM

UPPER HOUSING/LOUVERS – Die-cast aluminum. Head assembly is mounted to lower housing with three (3) stainless steel screws.

LOWER HOUSING – Constructed of 5” extruded aluminum (1/8” wall).

LENS – Clear molded glass, threaded against silicone gasket for tight seal.

GASKET – Flat silicone gasket.

FINISH – Highly weather resistant CraftStone™ finish bonded to the aluminum substrate or durable powdercoat finish electrostatically applied and bonded by heat fusion thermosetting. Consult factory for additional finishes.

SOCKET – Incandescent and HID: medium base. Fluorescent: GX24q-3 or GX24q-4 base.

REFLECTOR – Highly reflective white paint on spun aluminum rings, mounted on the underside of louvers.

ELECTRICAL – Standard quad-volt core and coil mounted on removable ballast bracket, with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

MOUNTING – Lower casting is secured to anchor foundation by three (3) galvanized steel bolts and nuts.

Before installing anchor bolts, contact factory for latest mounting template.

VOLTAGE CAUTION – Some local interpretation of the NEC Section 210-6 only permit the use of 120 volt fixtures when they are mounted below 8’. Check with local authorities before specifying alternate voltages.

ETL, cETL Listed.

10-1/8” [257mm]

32-1/4” [818mm]

3” [76mm]

1/2” [13mm]

120V
### Photometric Information

<table>
<thead>
<tr>
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<th>Lumens</th>
<th>Cast Louvers</th>
<th>Incan.</th>
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<th>MH</th>
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*Accepts 26, 32 and 42w PTL lamps.

### Ordering Guide

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<th>Catalog Number</th>
<th>Finish</th>
<th>Lens and Distribution</th>
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**Mounting Template**

- 3/8" [19mm] Diameter Anchor Bolt
- Maximum Conduit Area
- 3" [76mm] Bolt Circle

**Ordering Guide**

- Mounting Template
  - 1-11/16" [43mm] Projection
  - Mounting Base
  - Grounding Line

**Photometric Information**

- Voltage
  - (E) 120
  - (F) 208
  - (G) 240
  - (H) 277
  - (K) 347
BOLLARDS

RR70 ALUMINUM

UPPER HOUSING – Die-cast aluminum. Head assembly is mounted to lower housing with four (4) stainless steel screws which allow easy access for re-lamping.

LOWER HOUSING – Constructed of 6” extruded aluminum (1/8” wall).

OPTICS – Cylindrical fresnel lens projects even illumination in a 360º pattern (RR70). An integral hood directs low level illumination outward in a 180º arc (RB71). Integral louvers shield the light source, directing light down and outward in a 360º pattern (RL72).

GASKET – Molded silicone gasket seals glass and prevents moisture intrusion into the lamp area.

FINISH – Durable powdercoat finish electrostatically applied and bonded by heat infusion thermosetting. Consult factory for additional finishes.

SOCKET – Incandescent and HID: medium base. Fluorescent: GX24q-3 or GX24q-4 base.

ELECTRICAL – Standard quad-volt core and coil mounted on removable ballast bracket, with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

MOUNTING – Lower housing is secured to anchor foundation by three (3) 3/8”-16 galvanized steel bolts and stainless steel nuts. A twist-lock action mates lower casting with upper casting. One (1) set screw is used to lock casting in place. Consult factory for latest mounting template.

VOLTAGE CAUTION – Some local interpretation of the NEC Section 210-6 only permit the use of 120 volt fixtures when they are mounted below 8’. Check with local authorities before specifying alternate voltages.

ETL, cETL Listed.

RB71 ALUMINUM

RL72 ALUMINUM

RL72 ALUMINUM

VERA BOLLARD SERIES
**PHOTOMETRIC INFORMATION**

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**Mounting Template**

Use this arrow to align fixture

Set screw on this side

Curb, House, Path

**Ordering Guide**

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<th>Finish</th>
<th>Lens and Distribution</th>
<th>Wattage</th>
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*Accepts 26,32 and 42w PTL lamps.
**DW1 CAST BRONZE**

**DW1-N Natural Cast Bronze**
- 120 Volt
- 20 watt maximum
- T3 Halogen lamp (included)
- With integral transformer

**HOUSING** – Constructed of cast bronze. Recessed housing is compression molded composite. Two (2) 1/2” conduit inlets on bottom.

**FINISH** – Natural bronze.

**LENS** – Borosilicate frosted glass lens; fully-gasketed top and bottom.

**SOCKET** – Bi-pin type (G4).

**TRANSFORMER** – Standard 120/12 volt electronic transformer is furnished.

**WIRING** – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

---

**DWC1 COMPOSITE**

**DWC1-A Black**
- 120 Volt
- 20 watt maximum
- T3 Halogen lamp (included)
- With integral transformer

**HOUSING** – Injection molded polyester composite resin.

**FINISH** – Color impregnated black.

**LENS** – Borosilicate glass lens; fully-gasketed top and bottom.

**SOCKET** – Bi-pin type (G4).

**TRANSFORMER** – Standard 120/12 volt electronic transformer is furnished.

**WIRING** – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

---

**DWC2 COMPOSITE**

**DWC2-A Black**
- 120 Volt
- 20 watt maximum
- T3 Halogen lamp (included)
- With integral transformer

**HOUSING** – Injection molded polyester composite resin.

**FINISH** – Color impregnated black.

**LENS** – Ribbed clear acrylic; fully-gasketed.

**SOCKET** – Bi-pin type (G4).

**TRANSFORMER** – Standard 120/12 volt electronic transformer is furnished.

**WIRING** – Incandescent fixtures are pre-wired with high temperature #18 wire. ETL, cETL Listed.

---

**Recommended Spacing - DW1 - 15’**

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<th>3’</th>
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**Recommended Spacing - DWC1 - 15’**

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**Recommended Spacing - DWC2 - 16’**

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DW3


CONCRETE POUR KIT – Integral to drive-over guard. Top ring is die-cast stainless steel, bottom portion is extruded steel with integral rings for attaching rebar.

DRIVE-OVER GUARD – Die-cast stainless steel with tamper resistant stainless steel screws, mounted to a stainless steel concrete pour kit. Fixture is 3,500-pound live load rated.

LENS – Tempered borosilicate frosted dome glass.

GASKET – Single-piece molded silicone U-channel.

SOCKET – Mini-can, G12 or GX23-2 base.

REFLECTOR – DW3: formed aluminum reflector.

ELECTRICAL – Standard high power factor core and coil mounted on key-slotted removable tray with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballast. ETL, cETL Listed.

PRODUCT SELECTION GUIDE

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<td>Compact fluorescent</td>
<td>GX23-2 Base</td>
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Beacons

1010 Aluminum

Upper Housing – Die-cast aluminum, or injection molded polyester composite resin, or natural cast bronze.

Stainless steel screws in roof for easy top access for relamping.

Lower Housing – Die-cast aluminum, or single piece compression molded reinforced polyester composite housing, or natural cast bronze.

Lens – Borosilicate glass refractor lens, fully gasketed top and bottom.

Gasket – Molded silicone gasket seals glass, top and bottom, and prevents moisture intrusion into the fixture.

Finish – Durable powdercoat finish electrostatically applied and bonded by heat fusion thermosetting, to die cast aluminum. Composite beacon HID and fluorescent housing are color impregnated bronze. Cast bronze is natural bronze finish.


Electrical – Fluorescent uses 120V core and coil NPF ballast, rated at 0ºC starting temp. Other lamp options and wattages are available. Consult factory for additional fluorescent, or HID options.

Mounting – Beacons are partially recessed. Potting compound must be used to seal the conduit wire entry.

ETL, cETL Listed.

1012 Composite

1019 Cast Bronze

Composite beacon HID and fluorescent housing are color impregnated bronze. Cast bronze is natural bronze finish.
### ISO Footcandle Conversions

<table>
<thead>
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<th>Light Source</th>
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### Photograph Information
Beacons

CLB81 ALUMINUM

Upper Housing – Die-cast aluminum. Head assembly is mounted directly to lower housing with stainless steel screws. Available in three styles: cone, dome, or hexagonal style.


Optics – Die-cast aluminum louvers with tempered ribbed glass lens. 180° house side shield is supplied with each fixture.

Gasket – Molded silicone gasket seals glass and prevents moisture intrusion into the fixture.

Finish – Durable powdercoat finish electrostatically applied and bonded by heat fusion thermosetting.


Electrical – Standard quad-volt core and coil mounted on removable ballast bracket, with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

Mounting – Lower housing may be ground or concrete mounted. Potting compound (provided) must be used for sealing wire entryway from moisture intrusion.

Voltage Caution – Some local interpretation of the NEC Section 210-6 only permit the use of 120 volt fixtures when they are mounted below 8’. Check with local authorities before specifying alternate voltages.

ETL, cETL Listed.

CLB82 ALUMINUM

CLB83 ALUMINUM
**Ordering Guide**

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</tbody>
</table>

*Accepts 26,32 and 42w PTL lamps.
**RR701 ALUMINUM**

**UPPER HOUSING** – Die-cast aluminum. Head assembly is mounted to lower housing with stainless steel screws which allow easy access for re-lamping.


**OPTICS** – Cylindrical fresnel lens projects even illumination in a 360º pattern (RR701). An integral hood directs low level illumination outward in a 180º arc (RB711). Integral louvers shield the light source, directing light down and outward in a 360º pattern (RL721).

**GASKET** – Molded silicone gasket seals glass and prevents moisture intrusion into the fixture.

**FINISH** – Durable powdercoat finish electrostatically applied and bonded by heat infusion thermosetting. Consult factory for additional finishes.


**ELECTRICAL** – Standard quad-volt core and coil mounted on removable ballast bracket, with quick connect harness, high power factor, dipped in moisture-resistant epoxy coating. Fluorescent uses electronic ballasts.

**MOUNTING** – Beacons are partially recessed. Potting compound must be used to seal the wire entry.

**VOLTAGE CAUTION** – Some local interpretation of the NEC Section 210-6 only permit the use of 120 volt fixtures when they are mounted below 8'. Check with local authorities before specifying alternate voltages.

ETL, cETL Listed.
PHOTOMETRIC INFORMATION

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Bottom View

Two (2) 1/2” NPF Conduit Inlets

ORDERING GUIDE

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<th>Lens and Distribution</th>
<th>Wattage</th>
<th>Voltage</th>
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<td>50w HPS</td>
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</tbody>
</table>

*Accepts 26, 32 and 42w PTL lamps.
LINE VOLTAGE
UNDERWATER LIGHTING
Add brilliance to your large-scale fountain or water feature with our line voltage underwater fixtures. Made of nickel bronze, they’re practically indestructible – designed to last, not leak.

Be sure to see our underwater applications section for ideas on HADCO underwater installations.
**UW1100/UW1250 CAST BRONZE**

UW1100-N Natural Cast Bronze
UW1250-N Natural Cast Bronze
- 120 Volt
- 250 watt maximum
UW1100 - 100W T4 Lamp (Included)
UW1250 - 250W T4 Lamp (Included)
**HOUSING** – Cast nickel bronze guard, spun stainless steel housing, stainless steel fasteners.
**BASE** – Cast nickel bronze swivel base.
**FINISH** – Natural finish.
**LENS** – Tempered clear convex glass (see below for optional colored lenses).
**SOCKET** – Porcelain mini-can base.
**WIRING** – Standard 10 ft. 16-3 STO-WA water resistant cord. Fixture is pre-wired and potted to prevent water entry.
**THERMAL CUTOFF** – Furnished as standard on all fixtures. Enables fixture to be used in accordance with NEC Article 680-5 in installations without an external low-water cutoff.

**NOTE:** Underwater fixtures are not for use in swimming pools or spas due to exposed wiring.

ETL, cETL Listed.

<table>
<thead>
<tr>
<th>catalog no.</th>
<th>description</th>
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<td>UWBLU</td>
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<tr>
<td>UWRED</td>
<td>Red Lens</td>
<td>UWAMB</td>
<td>Amber Lens</td>
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</table>

**Max. Aiming Angle (Any Direction)**

6" [152mm]
5-1/2" [140mm]

---

**UW2100/UW2250 CAST BRONZE**

UW2100-N Natural Cast Bronze
UW2250-N Natural Cast Bronze
- 120 Volt
- 250 watt maximum
UWL2100 - 100W T4 Lamp (Included)
UWL2250 - 250W T4 Lamp (Included)
**HOUSING** – Cast nickel bronze guard, spun stainless steel housing, stainless steel fasteners.
**NICHIE** – Stainless Steel with cast nickel bronze trim.
**FINISH** – Natural finish.
**LENS** – Tempered clear convex glass (see below for optional colored lenses).
**SOCKET** – Porcelain mini-can base.
**WIRING** – Standard 10 ft. 16-3 STO-WA water resistant cord. Fixture is pre-wired and potted to prevent water entry.
**THERMAL CUTOFF** – Furnished as standard on all fixtures. Enables fixture to be used in accordance with NEC Article 680-5 in installations without an external low-water cutoff.

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<tr>
<td>UWRED</td>
<td>Red Lens</td>
<td>UWAMB</td>
<td>Amber Lens</td>
</tr>
</tbody>
</table>

**Max. Aiming Angle (Any Direction)**

7-7/16" [189mm]
15º

5-1/8" [130mm]
**JBH1 JUNCTION BOX**
Two (2) lights, 10.5 cubic inches. Single 3/4" NPT bottom. Two (2) 1/2" or 3/4", one (1) each end. Please specify factory-machined conduit entryways upon ordering.

**JBH2 JUNCTION BOX**
Four (4) lights. 21.3 cubic inches. Two (2) 1" max. NPT bottom. Four (4) 1/2" or 3/4", one (1) each end. Please specify factory-machined conduit entryways upon ordering.

**SJH10 JUNCTION BOX**
Two (2) lights. 21 cubic inches. Single 3/4" NPT bottom. Two (2) 1/2" or 3/4", one (1) each end. Please specify factory-machined conduit entryways upon ordering.

**CCH50**
Machined Naval Brass Cord Seal-Neoprene packing seal, brass friction ring. 1/2" NPT for use with 16-3 STO-WA entry into junction box.

**CCH50F**
Strain Relief, Machined Naval Brass Cord Seal-Neoprene packing seal, brass friction ring, 1/2" NPTx16-3 cord.

**MA1**
Re-enterable encapsulant for inground installations. Two-part field mixable material in one convenient package. Boxed six (6) per carton.
### Underwater Applications

**Waterfalls and Fountains—Line Voltage**

#### Aerated and Sheet Waterfalls

<table>
<thead>
<tr>
<th>Waterfall Height</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Light Spacing</th>
<th>Wattage Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1'</td>
<td>2'</td>
<td>NR</td>
<td>6'</td>
<td>2'</td>
<td>250</td>
</tr>
<tr>
<td>2'</td>
<td>4'</td>
<td>NR</td>
<td>8'</td>
<td>2'</td>
<td>250</td>
</tr>
<tr>
<td>3'</td>
<td>6'</td>
<td>16'</td>
<td>12'</td>
<td>3'</td>
<td>250</td>
</tr>
<tr>
<td>4'</td>
<td>8'</td>
<td>16'</td>
<td>16'</td>
<td>3'</td>
<td>250</td>
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<tr>
<td>5'</td>
<td>10'</td>
<td>20'</td>
<td>18'</td>
<td>4'</td>
<td>250</td>
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</table>

NR=Not Recommended.

#### Fountains

<table>
<thead>
<tr>
<th>Spray Height</th>
<th>Quantity of Lights</th>
<th>Wattage (Portable)</th>
<th>Wattage (Niche)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-3'</td>
<td>1</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>3-10'</td>
<td>2</td>
<td>250</td>
<td>NR</td>
</tr>
<tr>
<td>10-20'</td>
<td>3</td>
<td>250</td>
<td>NR</td>
</tr>
</tbody>
</table>

NR=Not Recommended.

---

**Notes:**

- Upper area dark unless lighted from above.

---

**Aerated Waterfalls**

- Height:
  - 16" (Standard)
  - Niche or Portable

**Sheet Waterfalls**

- Weir Depth
  - 2" Min.

**Fountains**

- Spray Height
  - 16" (Standard)

- Nozzle

- Niche Mounted Underwater Light

- Portable Underwater Light
**Junction Box and Fixture Installation—Line Voltage**

**Junction Box Selection Guide**

All conductors are to be considered in calculations.

<table>
<thead>
<tr>
<th>Conductor Size</th>
<th>Req. Space in Box For Each Conductor</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>1.5 CU.IN.</td>
</tr>
<tr>
<td>16</td>
<td>1.75 CU.IN.</td>
</tr>
<tr>
<td>14</td>
<td>2.0 CU.IN.</td>
</tr>
<tr>
<td>12</td>
<td>2.25 CU.IN.</td>
</tr>
<tr>
<td>10</td>
<td>2.5 CU.IN.</td>
</tr>
<tr>
<td>8</td>
<td>3.0 CU.IN.</td>
</tr>
<tr>
<td>6</td>
<td>5.0 CU.IN.</td>
</tr>
</tbody>
</table>

**Base or Yoke Mount**

- **2” Min.**
- **9’** — Max Length For Exposed Cords

**Niche Mount/Fountains Only**

- USR Strain Relief
- Conduit / Cord (3) 90 Bends Max
- Fountain Floor
- Niche
- Potting Compound
- Junction Box

**Concrete Floor**

**Cord Seal**

**Duct Seal — To Keep Potting Compound Out Of Conduit**

**Detail: Base or Yoke Mount Fixtures**
LINE VOLTAGE
ACCESSORIES AND PHOTOMETRICS
Just as important as our vast selection of fixtures, HADCO accessories give you all the options you need to finish the job with safety and confidence.

Browse our array of stakes, junction boxes and other mounting accessories. You’ll find the right accessories to implement almost any installation you can imagine.
**S3 MOUNTING STAKE**

Suitable for wet locations. Heavy wall, impact-resistant PVC. Threaded 1/2" NPT [13mm] hub with ground wire. Suitable for wet locations. Heavy wall, impact-resistant PVC. Threaded 1/2" NPT [13mm] hub with ground wire. Slanted bottom accepts conduits of different depths. PVC stabilizers included (no concrete needed). 3" O.D. [76mm] x 19" [483mm].* Accepts “Y” or “T” fitters (by others). Available in white, black, bronze, natural brass or verde. May be painted additional colors with water base paint. Use with ETL listed wet location fixture. ETL and cETL Listed.*

*S35B 3-1/2" O.D. [89mm] x 19" [483mm]

---

**BI1**

Hot dipped galvanized cast iron junction box. 4" [102mm] square x 3" high [76mm] with 1/2" NPS [13mm] top inlet. Two (2) 1/2" NPT [13mm] bottom inlets. Used with aluminum or composite fixtures.

---

**BI2**

Hot dipped galvanized cast iron junction box. 4" [102mm] square x 3" high [76mm] with 1/2" NPS [13mm] top inlet. Two (2) 3/4" NPT [19mm] bottom inlets. Used with aluminum or composite fixtures.

---

**BI3**

Hot dipped galvanized cast iron junction box. 4" [102mm] square x 3" high [76mm] with 1/2" NPS [13mm] top inlet. Four (4) 1/2" NPT [13mm] side inlets and two (2) 1/2" NPS [13mm] bottom inlets. Used with aluminum or composite fixtures.

---

**BI4**

Hot dipped galvanized cast iron junction box. 4" [102mm] square x 3" high [76mm] with 1/2" NPS [13mm] top inlet. Two (2) 1/2" NPT [13mm] side inlets and two (2) 1/2" NPS [13mm] bottom inlets. Used with aluminum or composite fixtures.

---

**M0029**

Cast aluminum junction box. 4" [102mm] x 2-1/4" [57mm] with 1/2" NPT [13mm] top inlet and four (4) 1/2" NPT [13mm] side inlets.

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**MA22**

Silicone-filled wire connectors. Necessary to protect splicings from moisture and oxidation. Handles up to 10 gauge wire. Boxed twenty-five (25) per carton.

---

**M0028A**

Portable line voltage stake. Cast aluminum with 8' [2440mm] 3-wire power cord and plug. 8" [203mm] long with 1/2" NPS [13mm] conduit inlet. Black powdercoat finish.
TM2
TM2-A Black
TM2-G Verde
TM2-H Dark Bronze
Line voltage tree mount cast aluminum junction box. Combination lag screws with hex nuts included.

TMC2H
Composite line voltage tree mount junction box. Combination lag screws with hex nuts included. May be used with tree strap (TMS10).

TMS10
Black nylon tree strap, a non-intrusive way of mounting line or low voltage bulbite fixture to a tree.
• 10 feet, field-cut to length
• Nylon strap with high strength, durable ABS adjustable fastener

MF1
Pack of twelve (12) combination galvanized lag screws with hex nuts for attaching canopies and ballast boxes in trees.

MA1
Re-enterable encapsulant for inground installations. Two-part field mixable material in one convenient package. Boxed six (6) per carton.

MA4
Corrosion preventive compound. Two-ounce tube. Specially formulated non-conductive sealant and corrosion preventative. For use on sockets and electrical contacts. Boxed six (6) per carton.
For over 50 years, HADCO fixtures developed as a direct outgrowth of close, ongoing involvement with lighting designers and specifiers. Many HADCO new products have roots in specials and custom projects.

HADCO has complete custom and modification capabilities for custom projects. Our team of custom engineers, technical specialists, and customer support are available to answer questions and offer advice about application, lamp placement and lighting objectives. In addition, we apply the latest manufacturing techniques and engineering software to deliver your request as efficiently as possible.

At HADCO, our integrated manufacturing facilities can make your vision a reality, producing lighting fixtures that reflect your style and imagination.

Don’t hesitate to contact your HADCO representative for more information.
HADCO WOULD LIKE TO THANK THE FOLLOWING PEOPLE AND ORGANIZATIONS WHO CONTRIBUTED TO THE PHOTOGRAPHY FEATURED IN THIS CATALOG.

Gene Coghlan, Chalfont, PA
Dave Deporter - Genlyte Baltimore/Washington, Columbia, MD
Rob Ellis - Architectural Landscape Lighting & Design, Miamitown, OH
Fred Massey - Genlyte Orlando, Winter Park, FL
Dave Murphy and Associates, Dumont, NJ
Lightscape, Libertyville, IL
Nelson King and Associates, Lincolnshire, IL
King Lighting, Cincinnati, OH
Signature Lighting, Novi, MI
Terra Forma, Richmond, VA

HADCO is always looking for quality residential and commercial landscape application photography that features HADCO products. To find out more information on submitting photography of your work, please contact your HADCO representative.
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