

Experience

The new speed of light

Since 1953, Philips Hadco has built products to a superior standard of quality and craftsmanship using only the finest raw materials and components available. We've built our business to a higher standard and focus on consistency and reliability in every product we develop. We inspect everything we manufacture multiple times, for fit and finish. Each of our designs is precision engineered and backed by ISO 9001 certification. Our comprehensive warranty exceeds industry standards.

This alone doesn't explain how we became the industry leader. There's another important area where we excel.

Service: Smart, Prompt, and Flexible.

At Philips Hadco, we provide a broad selection of styles, finishes, and lamping options in the industry. Our expertise in service helps you navigate through the choices and ensures that you receive what you need, when you need it; even if it requires a custom design. When you choose Philips Hadco, for your landscape lighting needs, we work to assure your lighting project will be on time. That's why more architects and designers depend on Philips Hadco every year, because they know what they'll get — Satisfaction.



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LED Low Voltage

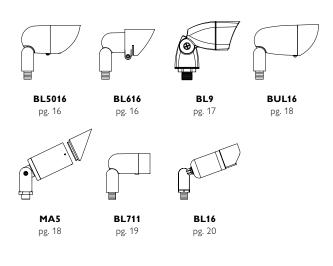
What is an LED?

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. Philips Hadco uses bright white LEDs as standard, which are developed by coating a blue LED with a phosphor, and thereby generating a white color.

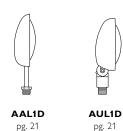
Why use LED?

- 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.

Accent lighting



Wall Wash lighting



pg. 21

LED Low Voltage

Flood lighting



WAML1D/WBML1D pg. 22

Down lighting



pg. 23





DRL1D

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DRL1 pg. 23

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In-ground lighting







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Deck lighting







DAL1 pg. 27

DCL1/DUL1 pg. 27

Path and walkway lighting









AL41 pg. 28

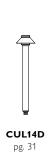
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Underwater lighting





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LED Line Voltage

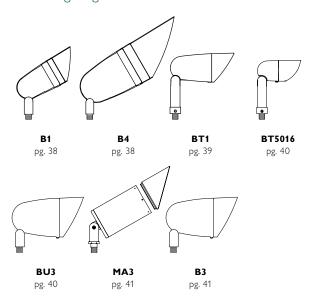
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Accent lighting



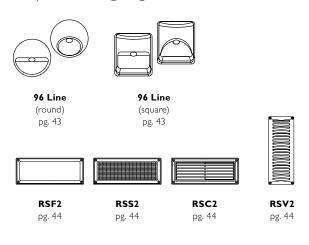
Flood lighting



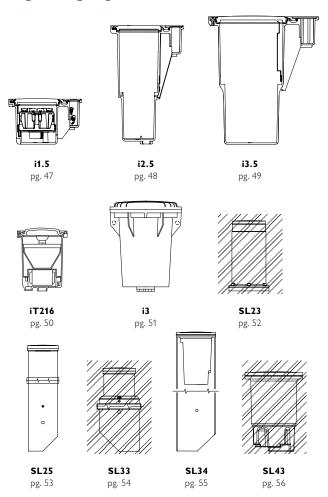
WAM1D/WBM1D pg. 42

LED Line Voltage

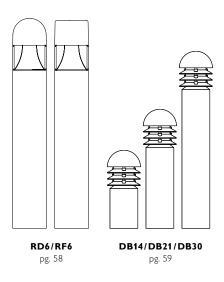
Step and Aisle lighting



In-ground lighting



Bollard lighting



Residential lighting



Applications

Trees, statues, pools, walkways; what features make up your landscape project? Which elements in an environment should be highlighted, and which should be down-played? The answers to those questions will determine the lighting fixtures and techniques you'll ultimately use.

Lighting Styles

- Accent lighting is lighting that focuses attention on a
 particular object or area. It commands the viewer to
 take note of a certain subject within the landscape.
 Examples of accent lighting are spotlighting a statue,
 path lighting a walkway or highlighting a flower bed
 with spread lights.
- Fill-in lighting is background lighting. It ties the overall
 landscape picture together, creating a comfortable
 transition from one accented area to another. Some
 examples may be backlighting a tree, washing a wall or
 fence, or flooding a row of evergreens with soft light.
- Down lighting may seem more natural because we are accustomed to the light of the sun and moon.
 In fact, most of the lighting that occurs naturally in life is from above. Office lighting, warehouse lighting, sports lighting, and home lighting are all examples of downlighting techniques. Downlighting is also very efficient in that you get to use all the light.
- Up lighting tends to draw more attention and is often more dramatic. Therefore, it is used for accent lighting purposes more often than downlighting.
- Back lighting is used to silhouette a plant, tree, or structure. Many times the shape of a plant is more interesting than the detail. By gently lighting a wall or fence behind the plant, you identify the shape.

Techniques

There are a variety of lighting techniques that in combination create a beautiful and secure environment for anyone. For each technique there are fixtures that work better than others. Here are some techniques and the fixtures that best create the desired effects:

Accent lighting



Effect: Focuses an intense beam of light on a particular subject to showcase focal points.

Tip: It's best not to light focal points uniformly or evenly. This gives the subject a washed out appearance and removes details. Statuary should be lit from overhead when possible. If you must light from the ground, place fixtures further out and aim back at the subject. Two levels of light work well; a spot on the facial features and a flood on the body creates a dramatic presentation.

Recommendation: Bullets, Inground lights



Effect: Gently illuminates a wall or fence to create a backdrop for the main focal points.

Tip: Avoid bright spots by positioning the fixtures 18" to 24" away from the wall.

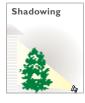
Recommendation: Wall-washers, Mini Flood lights



Effect: Displays a dark image of the subject by lighting a vertical surface behind the subject. Effective technique to show shape, but does not show color or texture of the subject. Accomplishes wall washing at the same time.

Tip: Choose a subject that is close to a wall and place the fixture out of sight behind the subject. Flood beam spreads or wall washers work the best.

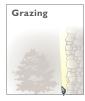
Recommendation: Bullets, Wall Washers, Mini Flood lights



Effect: Creates a shadow on a vertical surface by placing the fixture in front of the subject.

Tip: Best on open growth plant material. The closer the fixture to the subject, the larger the shadow will be. General illumination lamps create a better effect, use a T-3 or bayonet base lamp instead of an MR or Par lamp.

Recommendation: Bullets, Wall Washers, Mini Flood lights



Effect: Enhances texture of a surface by positioning a fixture close to the surface and aiming the beam upward or downward.

Tip: Try grazing on brick, stone, and stucco walls or any interesting masonry. Wide floods work best on walls or wide surfaces. Place fixtures 6" to 8" from the surface. When up lighting, put as much light as possible on the underside of the eave. This will reflect back a good amount of ambient light, many times sufficient to light sidewalks. Remember to aim the lamp with the horizontal beam pattern parallel to the wall. Don't forget the texture of tree trunks.

Recommendation: Bullets, Ingrounds, Mini Flood lights



Keep in Mind...

Often, it is easier to re-lamp a fixture on the ground rather than one mounted in a tree or on the soffit of a building. However, fixtures placed high and aimed down are less likely to be disturbed to need re-aiming. They also

> do not get covered by leaves, snow, etc. The decision of which to use is determined by the characteristics and lighting goals of each individual job.



Effect: Simulates the light of the full moon filtering through the foliage of a tree. Projects shadows on the ground and lights what is under the tree (paths, sidewalks, flowers, etc.).

Tip: Mount with proper tree mount accessory. Always run wire or conduit up the non-viewing side of the trunk. Best mounting height is approximately 20' and consider composites for their light weight. Aim down as much as possible to prevent glare and mount fixtures in open areas of the foliage to avoid hot spots.

Recommendation: Bullets, Mini Flood lights, Down lights

Effect: Down lighting from within the tree, casting shadows, and lighting what is under the tree. Best mounting height no

Tip: For use with smaller ornamental trees to cast light

Recommendation: Down lights, Micro Bullets



Effect: Lights a background scene to reflect it into a nearby body of water.

Tip: Place fixture between water and the scene behind the water. From the primary viewing area, observe what is reflected in the water in the daylight. Then uplight those items to achieve the same view at night. Avoid downlighting (including path lights) around water as the light source will be reflected in the water causing glare.

Recommendation: Bullets, Inground lights



around the base or through the tree.



Effect: Identifies signage after dark: entrances to sub-divisions, country clubs, office complexes, and small shopping centers.

Tip: Choose optics that complement the orientation of the sign. Wide floods for horizontal signs and bullets or ingrounds for vertical signs.

Recommendation: Bullets, Mini Flood lights, Inground lights



Effect: Combines simulated full moon light filtering through the tree and up lighting from within to illuminate the canopy. Creates a softer light on the trunk and keeps all fixtures off

Tip: Mount downlights on tree mount accessory 15' to 25' and use shrouds and/or louvers to reduce glare. Also consider using spread lens to widen the beam of the lamp. Mount uplights in the lowest forks of tree on tree mount accessory. Shrouds and louvers not necessary on uplights. Use wide beam lamps for all fixtures. Run wire up nonviewing side of trunk.

Recommendation: Bullets



Effect: Illuminates and identifies water in ponds and water

Tip: Water should "look" clean enough to drink. Avoid lighting still, stagnant water with white light. Use colored lenses if water is not clean, or to create different atmospheric effects. Place light fixtures under objects or plant material in the water for interesting effects (lily pads, boulders, art, etc.). For a different approach, light material behind the pond to create the mirror effect and leave the pond dark.

Recommendation: Underwater lights



Effect: An unnatural, therefore dramatic way of lighting trees and architectural structures. Highlights details on structures and can be used to repeat patterns to create interest.

Tip: For dense foliage trees, place the fixtures outside of the drip line and aim back approximately 45°. Open growth trees can be lit by placing fixtures closer to the trunk. In all cases, get light to the top of the tree. Since a lot of light can be lost with up lighting, take care to aim fixtures so you can recapture the lost light. (Large trees in the background, peaks of structures, eaves to reflect light back). Look for interesting details to highlight on architecture.

Recommendation: Bullets, Mini Flood lights, Inground lights



Effect: Creates dramatic effects of water movement in fountains and water features while enhancing the structure of the fountain.

Tip: Water must be clean or moving. In most cases it is better to light "through" water than "at" water. Allow the water to fall directly on the fixture. If possible, try lighting tiered bowl fountains from overhead. Otherwise, each bowl should have a fixture in it. Avoid over lighting and lighting evenly around the structure as this tends to wash out the detail.

Recommendation: Bullets, Underwater lights

Applications

In your mind's eye, you've already captured the power and beauty of light. You can rely on Philips 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 bullets.
- 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.



Area Lighting

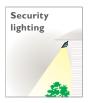


Effect: Creates symmetrical patterns of light for illuminating walkways, steps, etc. Used primarily for navigation purposes.

Tip: By lighting only the entrance to a walkway, any turns, and all changes in elevation, you may avoid the runway look and still accomplish the task. Placing fixtures near plant material can create shadows and interest rather than just lighting the hard surface.

Recommendation: Path lights, Spread lights, Beacons

Safety & Security Lighting



Effect: Fills in areas of darkness where intruders could hide. The right combination of low-level lighting in the landscape will improve both security and appearance.

Tip: Effective residential security lighting is not prison yard lighting. The goal is to be able to see movement on the property. This can be accomplished best with lower levels and more sources rather than one or two bright sources (avoid glare).

Recommendation: Bullets, Mini Flood lights, Inground lights, Deck lights, Step lights, Path lights, Spread lights, Beacons





Effect: Low-level, evenly dispersed illumination to highlight plants, flowers, low shrubs, and ground cover.

Tip: Place shielded fixtures over low plant material, boulders, and plant beds. Partially shielded fixtures may be used in deeper foliage and the additional light will backlight greenery.

Recommendation: Path lights, Spread lights, Beacons, Underwater lights



Effect: Technique of mounting fixtures in trees or on structures. Floods will broadcast light over a wide area creating general ambient light. Spots will dramatically identify focal points. Extremely efficient method of lighting—which means you can often use fewer fixtures. Very natural looking.

Tip: Look for items of interest on the ground that you want to light, then look up for places to mount and conceal fixtures. Select proper beam spreads for what you want to accomplish. Use accessories like spread lenses, louvers, and shrouds to maximize effects and reduce glare.

Recommendation: Bullets, Mini Flood lights, Down lights



 $\mbox{\bf Effect:}$ Lights traffic areas for safety while adding beauty to the steps.

Tip: Every step must be illuminated and visible. Mount fixtures in step risers, underneath railings, or on vertical posts. All changes in elevation and terraces should be lit for safety.

Recommendation: Deck lights, Deck Post lights, Step lights



Effect: Illuminates deck floors and steps while enhancing design.

Tip: Consider placing fixtures under built-in benches for a clean, inconspicuous look. When placing fixtures under handrails, mount fixtures high enough for good light distribution but be careful not to see the source when seated. Run cables under the deck to reduce clutter.

Recommendation: Down lights, Deck lights, Deck Post lights

Mountings & Sizes

Designed to contribute a consistent appearance with complementary style to your home for many years to come.

From a distance let your eyes be the judge.

Wall Lighting

With numerous designs to choose from, Philips Hanover Lantern has a style to compliment any architecture. Each series has multiple sizes and mounting options, so you can find the appropriate fixture for your application. With 20 finishes to select from, we can beautifully integrate with your exterior color scheme.

Post Lighting

Philips Hanover Lantern offers an expansive line of posts and designer base wraps to compliment all of our lighting fixtures. Whether you use a single post outside your front entrance, or multiple posts to line your driveway, you will provide security as well as beauty to your property.

Pier Lighting

Create a dramatic entrance to your property with the use of our pier mounted fixtures. Philips Hanover Lantern manufactures a wide range of models and sizes for any application.

Mailboxes & Signs

Add a totally integrated look to your property with the addition of a sign or mailbox. Philips Hanover Lantern offers many standard cast aluminum signs in a variety of shapes and sizes. Our upscale mailboxes, available in your choice of any of our elegant hand applied finishes, are manufactured in a variety of configurations and sizes.











A fixture size for every application

The entrance to your home or property sets the style and mood of its owners. Choosing a fixture that is properly proportioned to its surroundings is critical. The following series of photographs are used to illustrate this point. Your local lighting showroom can offer expertise in helping you select the correct fixture for your application.







Pier Lighting Manor series is just one of many styles offered in four different sizes. Shown above in a pier mount configuration on a 30" square pier, size and scale of the fixture to its environment is critical. If you have doubts or questions, your local lighting showroom can help determine size.









Post Mount Most home centers offer only smaller sized outdoor lighting fixtures. The Jamestown series fixtures, in the photographs above, clearly illustrate the need for larger scale fixtures. A small size lantern is not recommended for use on a 6' residential post. A 20" high or larger fixture will be more proportional.









Wall Mount Consumers often make the mistake of selecting outdoor lighting fixtures that are too small. South Bend series in the photos above show different size fixtures of the small design in the identical installation. Remember to keep the location of the electrical box in mind for proper height.

Low & Line Voltage finishes

For LED and Non-LED fixtures.

Finishes & 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, Philips Hadco offers an assortment of materials in a spectrum of finishes, each painstakingly developed to harmonize and endure in naturally occurring environments.

Our ULTEM High-Performance Polymer is a 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 powder-coat 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 it's cues from the color palette of the desert. Each finish 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 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 Philips Hadco representative for more details.

Brass



Copper











Natural Brass (Cast Bronze)

OB Oiled Brass

PC Copper

AC Antique Copper

Other





SS Stainless Steel

Composite







A Black

H Bronze



G Verde

Residential finishes

For LED and Non-LED Residential fixtures only.

Aluminum





A Black



B White





G Verde



H Bronze



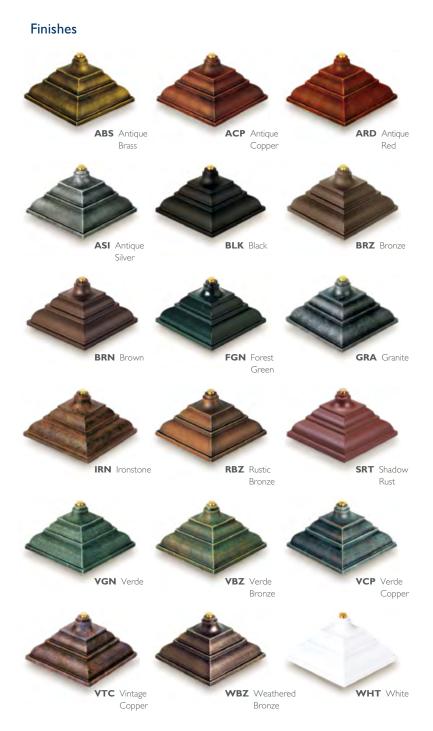




K Garden Green



T Speckled Stone



LED Low Voltage

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BL5016

Aluminum Accent



	To A Date Side		CALLE	1
	A Black			³ /16"
Ş	G Verde			7 7 12 (
	H Bronze	_		2 ¹³ / ₁₆ " 71 mm
		2¾" 60 mm	-	
		60 mm		
		_₩	I	

Series	Finish	Mount	Lamp	Optics	ССТ
BL5016		S7			
BL5016 Aluminum Accent	A Black G Verde H Bronze	S7 Stake	LED7	FL Flood NF Narrow Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp
- ½" NPS fitter
- Ships with S7 mounting stake

Housing

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

Shroud

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

Finish

Thermoset powder coated in; black, bronze, or hand-rubbed verde antiqued over black.

Optics

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

LED

- 25,000 hour life (no mercury).
- 7W lamp with 24° or 36° beam spread.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to BL5016.

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

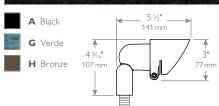
Bi-pin type (GU5.3).

Labels

ETL and cETL listed.

BL616 Aluminum Accent





Series	Finish	Mount	Lamp	Optics	сст
BL616		S7			
BL616 Aluminum Accent	A Black G Verde H Bronze	S7 Stake	LED7	FL Flood NF Narrow Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp
- $\frac{1}{2}$ " NPS fitter
- Ships with S7 mounting stake

Housing

Die-cast aluminum with fully-adjustable swivel arm with vibrationproof locking teeth.

Shroud

Gasketed, cast aluminum.

Finish

Thermoset powder coated in; black, bronze, or hand-rubbed verde antiqued over black.

Optics

Clear tempered glass.

LED

- 25,000 hour life (no mercury).
- 7W lamp with 24° or 36° beam spread.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to BL616.

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (GU5.3).

Labels

BL9
Aluminum Accent

Series	Lamping	ССТ	Finish	Mount
BL9	D			S7
BL9 Low Voltage Bullet lighting	D LED	W Warm (3000K) C Cool (4000K)	A Black H Bronze	S7 Stake

Features

- 12 Volt
- Ships with S7 mounting stake

Housing

A 360° die-cast aluminum housing for driver with thermal management creates continuity with housing by repeating similar shape. All gaskets are 100% molded silicone.

Shroud

A360° die-cast aluminum, tool-less twist off/on.

Finish

Thermoset polyester powder coat is electrostatically applied after a five-stage conversion cleaning process and bonded by heat fusion thermosetting.

Mounting

½"-14 NPSM male threads to screw onto mounting stake, or other mounting accessory, sold separately.

Controls

12 Volt Class 2 driver with integral switch provides simple customer access to the adjustment between 4 present light levels.

Optics

Flat glass, low iron tempered clear glass, c-channel gasket slips onto lens without tools or RTV. Zoomable optic / Injection molded acrylic (PMMA) clear, highly polished molded with select surfaces textured. Zoomable lens provides Narrow 15° to Medium 35° beam pattern depending on the position, Inter-changeable lens provides Wide 60 flood output.

LED

Single Luxeon M LED.

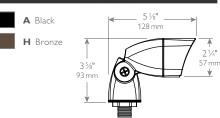
IP66 rating

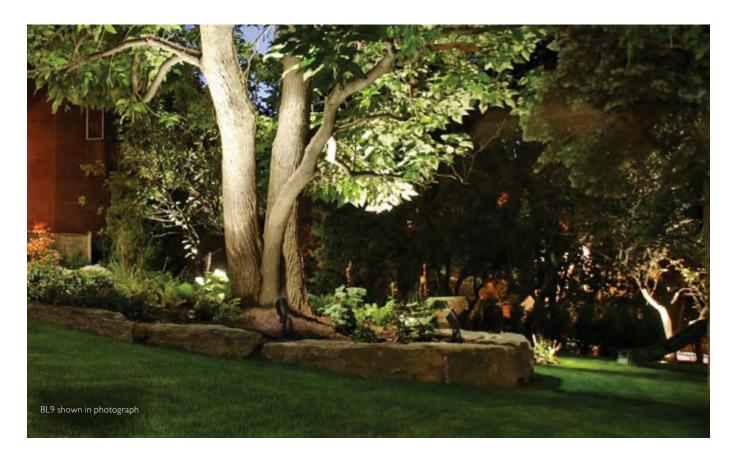
Dust tight and sealed against direct jets of water.

Labels

ETL Listed to U.S. safety standards for wet locations. CETL listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards 5-year limited warranty.



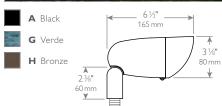




BUI 16

Composite Accent





Series	Finish	Mount	Lamp	Optics	ССТ
BUL16		S7	LED7		W
BUL16 Composite Accent	A Black G Verde H Bronze	S7 Stake	LED7	NF Narrow Flood FL Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp
- ½" NPS fitter
- · Ships with S7 mounting stake

Housing

One-piece injection molded ULTEM High Performance Polymer with fully-adjustable swivel arm and 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.

Optics

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

LED

- 25,000 hours life (no mercury).
- 7W lamp with 24° or 36° beam spread.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to BUL16.

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (GU5.3).

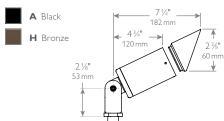
Labels

ETL and cETL listed.

MA5

Aluminum Accent





			_	_		
MA5 Aluminum Accent	NF	Spot Narrow Flood Flood		low-output high-output		Warm Cool
		Housing		L	ED	

Optics



Features

Series

MA5

- 12 Volt
- 6.2 total watts (high power)
- 5.1 total watts (low power)
- ½" NPS fitter
- Ships with S7 mounting stake

Precision machined aluminum from 6061-T6 material. Stainless Steel fasteners.

Source

Shroud

Optional Long 45°

Finish

Thermoset powder coated in; black or bronze.

Optics

Three beam spread:

- Spot 23°
- Medium 30°
- Flood 54°

ССТ

Finish

Black

H Bronze

- 35,000 hours life at 30°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): 3,000K or 4,000K

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

Shroud

- None

L Long 45°

Mount

S7 Stake

S7

Input voltage range (VAC): 10 - 14, regulated to 12V DC.

IP65 rating

Completely dust-tight and sealed to withstand low pressure jets of water from any direction.

Labels

BL711

Aluminum Accent



A Black	4³%" → 111 mm
H Bronze	* 2"
	3 7/8" 98 mm
	<u></u>

Series BL711	Finish	Mount S7	Lamp	сст w
BL711 Composite Accent	A Black H Bronze	\$7 Stake	LED2	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- T3 LED Lamp
- ½" NPS fitter
- Ships with S7 mounting stake

Housing

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

Shroud

Gasketed, cast aluminum.

Finish

Thermoset powder coated in black or bronze.

Optics

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

LED

- 15,000 hours life (no mercury).
- 2W lamp.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to BL711.

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (G4).

Labels

ETL and cETL listed.

CUL16

Copper Accent





Series	Mount	Lamp	Optics	ССТ
CUL16	S7	LED7		w
CUL16 Copper Bullet	\$7 Stake	LED7	NF Narrow Flood F Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp
- $\frac{1}{2}$ " NPS fitter
- Ships with S7 mounting stake

Housing

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

Shroud

Fully rotatable.

Finish

Natural copper will age to a fine patina.

Optics

Clear tempered glass.

LED

- 25,000 hours life (no mercury).
- 7W lamp with 24° or 36° beam spread.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to CUL16.

Wiring

Pre-wired with a 3ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (G4).

Labels

BL16 Composite Accent



N Natural Brass	61/2" 165 mm
OB Oiled Brass	3 ½" 80 mm
2.3/6" 60 mm	

Series	Finish	Mount	Lamp	Optics	сст
BL16		S7	LED7		W
BL16 Composite Accent	N Natural Brass OB Oiled Brass	S7 Stake	LED7	NF Narrow Flood FL Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp
- $\frac{1}{2}$ " NPS fitter
- Ships with S7 mounting stake

Housing

Die-cast brass with fullyadjustable swivel arm and vibration-proof locking teeth.

Shroud

Fully-rotatable, gasketed, die-cast brass.

Finish

Natural brass or oiled brass. Oiled brass finish is chemically treated and appearance will vary between production runs. Flnish will continue to patina over time.

Optics

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

LED

- 25,000 hours life (no mercury).
- 7W lamp with 24° or 36° beam spread.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to BL16.

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (GU5.3).

Labels



LED Wall Wash lighting

AAL1D Aluminum Wall Washer

Series	ССТ	Finish	Mount
AAL1D			S7
AAL1D Aluminum Wall Washer	C3 Cool (high power) C2 Cool (low power) W3 Warm (high power) W2 Warm (low power)	A Black	S7 Stake

Features

- 12 Volt
- 3.8 total watts (high power)
- 2.4 total watts (low power)
- ½" NPS fitter
- Ships with S7 mounting stake

Housing

Cast aluminum construction with fully-adjustable swivel arm with vibrationproof locking teeth.

Finish

Thermoset powder coated in; black.

Optics

Clear polycarbonate lens. 150° LED spread.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): 3,000K or 4,000K

Wiring

Pre-wired with a 3ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC.

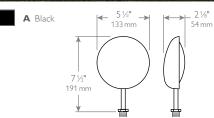
IP66 rating

Completely dust-tight and sealed against direct jets of water.

Labels

ETL and cETL listed.





AUL1D

Composite Wall Washer

Series	ССТ	Finish	Mount
AAL1D			S7
AAL1D Aluminum Wall Washer	C3 Cool (high power) C2 Cool (low power) W3 Warm (high power) W2 Warm (low power)	G Verde	S7 Stake

Features

- 12 Volt
- 3.8 total watts (high power)
- 2.4 total watts (low power)
- ½" NPS fitter
- Ships with S7 mounting stake

Housing

Injection molded ULTEM High Performance Polymer composite with adjustable swivel arm and vibrationproof locking teeth.

Finish

Color impregnated material in black, hand-rubbed verde antiqued over black.

Optics

Clear polycarbonate lens. 150° LED spread.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): 3,000K or 4,000K

Wiring

Pre-wired with a 3ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

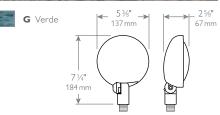
Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC.

IP66 rating

Completely dust-tight and sealed against direct jets of water.

Labels





LED Flood lighting

WAML1D/WBML1D

Aluminum Flood light







Series	сст	Lens	Finish	Mount
				S7
WAML1D Aluminum Spot light with shroud	C3 Cool (high power) C2 Cool (low power)	- Clear Lens F Frosted Lens	A Black B White	S7 Stake
WBML1D Aluminum Spot light without shroud	W3 Warm (high power) W2 Warm (low power)		G Verde H Bronze	

Features

- 12 Volt
- 3.8 total watts (high power)
- 2.4 total watts (low power)
- ½" NPS fitter
- > 80 CRI
- Ships with S7 mounting stake

Housing

Die-cast aluminum with fully-adjustable swivel arm, with vibrationproof locking teeth.

Shroud

Gasketed, cast aluminum available (WAML1D).

Finish

Thermoset powder coated in; black, white, or hand-rubbed verde antiqued over black.

Optics

Clear or frosted tempered glass. 150° LED spread (equivalent to wide flood).

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): cool white (4,000K) or warm white (3,000K)

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC. Integral surge protector (magnetic low voltage transformer required).

IP66 rating

Completely dust-tight and sealed against direct jets of water.

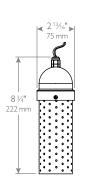
Labels



LED Down lighting

DL1D

Aluminum Down light





Series	CCI	Г	Fin	ish
DL1D			G	
DL1D Aluminum Down light	C3	Cool (6.4W)	G	Verde
		Cool (3.7W)		
	W3	Warm (6.4W)		
	W2	Warm (3.7W)		

Features

- 12 Volt
- 3.8 total watts (high power)
- 2.4 total watts (low power)

Housing

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

Finish

Thermoset powder coated in; hand-rubbed verde antiqued over black.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): 3,000K or 4,000K.

Wiring

Pre-wired with a 8 ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC.

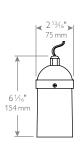
IP66 rating

Completely dust-tight and sealed against direct jets of water.

Labels

ETL and cETL listed.

DRL1 Aluminum Down light





Series	Finish	Lamp	Optics	ССТ
DRL1		LED7		
DRL1 Aluminum Down light	A Black G Verde	LED7	FL Flood NF Narrow Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp

Housing

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

Finish

Thermoset powder coated in; black or hand-rubbed verde antiqued over black.

Optics

Clear tempered glass.

LED

- 25,000 hours life (no mercury).
- 7W lamp with 24° or 36° beam spread
 Color temp (CCT):
- warm white (3,000K nominal).
- Lamp only sold integral to DRL1.

Wiring

Pre-wired with a 8 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (GU5.3).

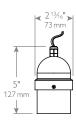
Labels

LED Down lighting

DRL1D

Aluminum Down light







A Black



G Verde

Series	ССТ	Finish
DRL1D		
DRL1D Aluminum Down light	C3 Cool (6.4W) C2 Cool (3.7W) W3 Warm (6.4W) W2 Warm (3.7W)	A Black G Verde

Features

- 12 Volt
- 3.8 total watts (high power)
- 2.4 total watts (low power)

Housing

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

Finish

Thermoset powder coated in; black or hand-rubbed verde antiqued over black.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): 3,000K or 4,000K.

Wiring

Pre-wired with a 8 ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC.

IP66 rating

Completely dust-tight and sealed against direct jets of water.

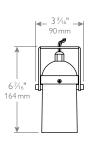
Labels

ETL and cETL listed.

DRL2

Aluminum Down light





A

A Black

Series	Finish	Lamp	Optics	сст
DRL2				
DRL2 Aluminum Down light	A Black	LED7	FL Flood NF Narrow Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp

Housing

Cast aluminum top cap with aluminum body and adjustable mounting yoke.

Finish

Thermoset powder coated in black.

Optics

Clear tempered glass.

LED

- 25,000 hours life (no mercury).
- 7W lamp with 24° or
- 36° beam spread
 Color temp (CCT):
 warm white
 (3,000K nominal).
- Lamp only sold integral to DRL2.

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (GU5.3).

Labels

LED In-ground lighting

iL116 Composite Inground

Series	Rock guard	Finish	Lamp	Optics	ССТ
iL116			LED7		
iL116 Composite Inground	- None G Guard	N Natural Cast Bronze H Bronze	LED7	NF Narrow Flood FL Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp

Housing

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

Trim ring

Compression molded polyester or natural cast bronze.

LED

- 25,000 hours life (no mercury).
- 7W lamp with 24° or 36° beam spread.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to iL116.

Optics

Clear convex, tempered soda-lime glass for high impact resistance. 2,200-pound live-load rated, standard walkover.

Rock guard

Optional rock guard is directional for glare control. Compression molded polyester

Wiring

Pre-wired with 3 ft. pigtail for easy hookup to the low voltage supply cable.

Aiming

15° either side of vertical and full 360° rotation. Angle degree marks for precise vertical aiming.

IP66/68 rating

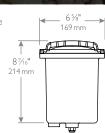
Dust-tight and dual rated – sealed against direct jets of water and against continuous immersion up to a depth of 1 meter (3.28 feet).

Labels

ETL and cETL listed.







iUL516

Composite Inground

Series	Finish	Lamp	Optics	ССТ
iUL516	Н	LED7		w
iUL516 Composite Inground	H Bronze	LED7	NF Narrow Flood FL Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- MR16 LED Lamp

Housing

Single-piece injection molded fiberglass reinforced ULTEM High Performance Polymer.

Finish

Color impregnated composite material in; bronze.

Optics

Convex lens is clear, high temperature tempered glass furnished with silicone O-ring for watertight seal.

LED

- 25,000 hours life (no mercury).
- 7W lamp with 24° or 36° beam spread.
- Color temp (CCT): warm white (3,000K nominal).
- Lamp only sold integral to iUL516.

Wiring

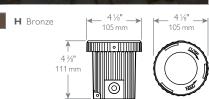
Pre-wired with a 3 ft. pigtail for easy hookup to the low voltage supply cable.

Socket

Bi-pin type (GU5.3).

Labels



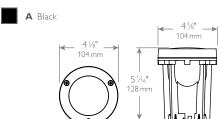


LED In-ground lighting

iL9

Composite Inground





Series	Lamping	сст	ССТ
iL9	D		Α
iL9 Low Voltage Inground lighting	D LED	W Warm (3000K) C Cool (4000K)	A Black

Features

• 12 Volt

Housing

Black Injection molded, glass filled polyester, molded-in fins for thermal performance as well as to discourage heaving and twisting after install. Molded-in brass inserts for repeatable opening / closing. Lens ring secured with three (3) screws that clamp lens and gasket into place, flush for ADA compliance and repeatable sealing.

LED

Single Luxeon M LED.

Finish

Composite is textured, pressure formed, black molded-in-color.

Controls

12 Volt Class 2 driver with integral switch provides simple customer access to the adjustment between 4 present light levels.

Optics

Low iron-tempered clear glass, molded gasket slips onto lens without tools or RTV. Zoomable optic / Injection molded acrylic (PMMA) clear, highly polished molded with select surfaces textured. Inter-changeable lens provides Narrow 15° to Medium 35° beam pattern depending on the position, Inter-changeable lens provides Wide 60° flood output.

IP67 rating

Dust-tight and sealed against direct jets of water and against continuous immersion up to a depth of 1 meter (3.28 feet).

Labels

ETL Listed to U.S. safety standards for wet locations. cETL listed to Canadian safety standards for wet locations.

Manufactured to ISO 9001:2008 Standards 5-year limited warranty.



LED Deck lighting

DAL1

Aluminum or Stainless Steel Deck light

Series	Finish	Lamp	ССТ
DAL1		LED2	W
DAL1 Aluminum or Stainless Steel Deck light	A Black B White G Verde H Bronze SS Stainless Steel	LED2 LED	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- T3 LED lamp
- 1.2 total Watts
- >80 CRI

Housing A, B, G, & H:

steel set screws.

Cast aluminum construction with stainless steel set screws. **SS**: Stainless steel housing with stainless

Finish

A, B, G, & H:

Thermoset powder coated in; black, white, bronze, or hand-rubbed verde antiqued over black.

SS: Stainless steel with brushed matte finish.

Optics

Frosted annealed glass.

LED

- 15,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): warm white (3,000K nominal).

Wiring

Pre-wired with a 6ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

DAL1-SSLEDW

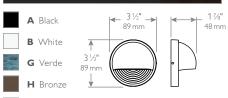
IP67 rating

Completely dust-tight and sealed against direct jets of water.

Labels

ETL and cETL listed.





SS Stainless Steel

DCL1/DUL1

Composite or Brass Deck light



Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt • T3 LED lamp
- 1.3 LED lamp • 1.2 total Watts
- >80 CRI

Housing

A, **G**, **H**: Injection fiberglass reinforced molded ULTEM High Performance Polymer housing with stainless steel set screws.

N: Solid die-cast brass housing and backplate with stainless steel set screws.

Finish

A, **G** & **H**: Color impregnated composite material in; black, bronze or hand-rubbed verde antiqued over black.

N: Natural brass.

Optics

Frosted annealed glass.

LED

- 15,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): warm white (3,000K nominal).

Wiring

Pre-wired with a 6ft. pigtail for easy hookup to the low voltage supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

DCL1-NLED2W

IP67 rating

Completely dust-tight and sealed against direct jets of water.

Labels

ETL and cETL listed.

DCL1-GLED2W



AL41 Aluminum Path light

A Black



G Verde

Series	Finish	Mount	Lamp	ССТ
AL41		S7	LED2	W
AL41 Aluminum Path light	A Black G Verde	S7 Stake	LED2 LED	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- T3 LED lamp
- 1.2 total watts • ½" NPS fitter
- Ships with S7
- mounting stake

Housing

Cast aluminum with stainless steel fasteners.

Finish

Thermoset powder coated in; black or hand-rubbed verde antiqued over black.

Finial

Clear seeded glass finial sparkles when illuminated.

LED

- Delivers 70% lumen maintenance at 15,000 hours.
- Color temp (CCT): warm white (3,000K nominal).

Wiring

Pre-wired with a 3ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC. Integral surge protector (magnetic low voltage transformer required).

IP66 rating

Dust tight and sealed against direct jets of water.

Labels





CPL21
Aluminum Path light

Series	Finish	Mount	Lamp	сст
CPL21		S7	LED2	w
CPL21 Aluminum Path light	A Black H Bronze	S7 Stake	LED2 LED	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- T3 LED lamp
- 1.2 total watts
- ½" NPS fitter
- Ships with S7 mounting stake

Housing

Cast aluminum with stainless steel fasteners.

Finish

Thermoset powder coated in; black or bronze.

LED

- Delivers 70% lumen maintenance at 15,000 hours.
- Color temp (CCT): warm white (3,000K nominal).

Optics

Clear tempered flat glass lens.

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC. Integral surge protector (magnetic low voltage transformer required).

IP66 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.





A Black H Bronze

CUL2D Copper Path light

Series	ССТ	Mount
CUL2D		S7
CUL2D Copper Path light	W Warm C Cool	S7 Stake

Features

- 12 Volt
- 3.6 total watts
- $\frac{1}{2}$ " NPS fitter
- Stem (included) • >80 CRI
- Ships with S7
- mounting stake

Housing

Spun solid copper roof and solid copper stem. Machined copper or brass threaded adapter for tool-less relamping.

Finish

Natural copper will patina with age. Reflective white powdercoat on underside of roof.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT):
 92 lumen cool white (4,000K nominal) or
 80 lumen warm white (3,000K nominal).

Optics

Frosted borosilicate glass.

Wiring

Pre-wired with a 6ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

IP67 rating

Dust tight and sealed against direct jets of water.

Labels





CUL7D

Copper Path light



Series	ССТ	Mount
CUL7D		S7
CUL7D Copper Path light	W Warm	S7 Stake

Features

- 12 Volt
- 3.6 total watts
- $\frac{1}{2}$ " NPS fitter
- Stem (included)>80 CRI
- Ships with S7 mounting stake

Housing

Spun solid copper roof and solid copper stem. Machined copper or brass threaded adapter for tool-less relamping.

Finish

Natural copper will patina with age. Reflective white powdercoat on underside of roof.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT):
 92 lumen cool white (4,000K nominal) or
 80 lumen warm white (3,000K nominal).

Optics

Frosted borosilicate glass.

Wiring

Pre-wired with a 6ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

IP67 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.



CUL9D

Copper

Copper Path light



Series	сст	Mount
CUL9D	w	S7
CUL9D Copper Path light	W Warm C Cool	S7 Stake

Features

- 12 Volt
- 3.6 total watts
- $\frac{1}{2}$ " NPS fitter
- Stem (included)>80 CRI
- > 00 CNI
- Ships with S7 mounting stake

Housing

Spun solid copper roof and solid copper stem. Machined copper or brass threaded adapter for tool-less relamping.

Finish

Natural copper will patina with age. Reflective white powdercoat on underside of roof.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT):
 92 lumen cool white (4,000K nominal) or
 80 lumen warm white (3,000K nominal).

Optics

Clear/frosted borosilicate glass.

Wiring

Pre-wired with a 6ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

IP67 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.



Copper

CUL10D **Copper Path light**

Series	сст	Mount
CUL10D		S7
CUL10D Copper Path light	W Warm C Cool	S7 Stake

Features

- 12 Volt
- 3.6 total watts
- ½" NPS fitter • Stem (included)
- > 80 CRI
- Ships with S7 mounting stake

Housing

Spun solid copper roof and solid copper stem. Machined copper or brass threaded adapter for tool-less relamping.

Finish

Natural copper will patina with age. Reflective white powdercoat on underside of roof.

LED

- 50.000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): 92 lumen cool white (4,000K nominal) or 80 lumen warm white (3,000K nominal).

Optics

Clear/frosted borosilicate glass.

Wiring

Pre-wired with a 6ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

IP67 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.





Copper

CUL14D

Copper Path light

Series	сст	Mount
CUL14D		S7
CUL14D Copper Path light	W Warm C Cool	S7 Stake

Features

- 12 Volt
- 3.6 total watts
- ½" NPS fitter
- Stem (included) • > 80 CRI
- Ships with S7
- mounting stake

Housing

Spun solid copper roof and solid copper stem. Machined copper or brass threaded adapter for tool-less relamping.

Finish

Natural copper will patina with age. Reflective white powdercoat on underside of roof.

LED

- 50.000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): 92 lumen cool white (4,000K nominal) or 80 lumen warm white (3,000K nominal).

Optics

Frosted borosilicate glass.

Wiring

Pre-wired with a 6ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

IP67 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.





Copper

MUI4

Aluminum Path light



G Verde

Series	Finish	Mount	Lamp	ССТ
MUL4		S7	LED2	W
MUL4 Aluminum Path light	A Black G Verde H Bronze	S7 Stake	LED2 LED	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

- 12 Volt
- T3 LED lamp
- 1.2 total watts • ½" NPS fitter
- Ships with S7 mounting stake

Housing

Cast aluminum with stainless steel fasteners.

H Bronze

Thermoset powder coated in; black, bronze or hand-rubbed verde antiqued over black.

LED

- Delivers 70% lumen maintenance at 15,000 hours.
- · Color temp (CCT): warm white (3,000K nominal).

Wiring

Pre-wired with a 3ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC. Integral surge protector (magnetic low voltage transformer required).

IP66 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.



RL4

A Black

Aluminum Path light



Series	Finish	Mount	Lamp	ССТ
RL4		S7	LED2	W
RL4 Aluminum Path light	A Black H Bronze	\$7 Stake	LED2 LED	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- T3 LED lamp
- 1.2 total watts • ½" NPS fitter
- Ships with S7 mounting stake

Housing

Cast aluminum construction.

Finish

Thermoset powder coated in; black or bronze.

LED

- Delivers 70% lumen maintenance at 10,000 hours.
- Color temp (CCT): warm white (3,000K nominal).

Optics

Frosted tempered glass.

Wiring

Pre-wired with a 3ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC. Integral surge protector (magnetic low voltage transformer required).

IP66 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.



A Black



RL9
Aluminum Path light

Series	Finish	Mount	Lamp	ССТ
RL9		S7	LED2	W
RL9 Aluminum Path light	A Black H Bronze	S7 Stake	LED2 LED	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- T3 LED lamp
- 1.2 total watts
- ½" NPS fitter
- >80 CRI
- Ships with S7 mounting stake

Housing

Cast aluminum with stainless steel fasteners.

Finish

Thermoset powder coated in; black or bronze.

LED

- 15,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): warm white (3,000K nominal).

Wiring

Pre-wired with a 3 ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 11 - 15 (magnetic low voltage transformer required).

IP67 rating

Dust tight and sealed against direct jets of water.

Labels

ETL and cETL listed.





TRL4

Aluminum Path light

Series	Finish	Mount	Lamp	сст
TRL4	G	S7	LED2	w
TRL4 Aluminum Path light	G Verde	S7 Stake	LED2 LED	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- T3 LED lamp
- 3.8 total watts • ½" NPS fitter
- Ships with S7
- mounting stake

Housing

Cast aluminum with stainless steel fasteners.

Finish

Thermoset powder coated in; hand-rubbed verde antiqued over black.

LED

- Delivers 70% lumen maintenance at 15,000 hours.
- Color temp (CCT): warm white (3,000K nominal).

Optics

Frosted borosilicate glass.

Wiring

Pre-wired with a 3ft. pigtail for easy hookup to the supply cable.

Electrical

Input voltage range (VAC): 10.8 - 13.2, regulated to 12V DC. Integral surge protector (magnetic low voltage transformer required).

IP66 rating

Dust tight and sealed against direct jets of water.

Labels





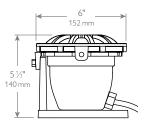
LED Underwater lighting

UWL1075

Cast Bronze Underwater



H Bronze



Series	Finish	Lamp	Optics	сст
UWL516	Н			
UWL516 Composite Underwater	H Bronze	LED7 LED	NF Narrow Flood FL Flood	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- 50 watt max
- MR16 LED lamp

Housing

Cast nickel bronze guard, spun stainless steel housing, stainless steel fasteners

Base

Cast nickel bronze swivel base.

LED

- 7W lamp with 24° or 36° beam spread.
- Delivers 70% lumen maintenance at 25,000 hours.
- Color temp (CCT): . warm white (3,000K nominal).
- · Lamp only sold integral to UWL1075 fixture.

Finish

Natural finish.

Optics

Tempered clear convex glass (see accessories for optional colored lenses).

Wiring

Pre-wired with a 10ft. SVO cord for hard wiring to the low voltage supply cable.

Socket

Bi-pin (GY6.5).

Labels

ETL and cETL listed.

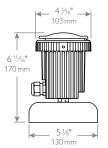
Note: Underwater fixtures are not for use in swimming pools or spas due to exposed wiring. Hand tighten screws, avoid over tightening. Consult factory for pool and spa rated transformers.

UWUL516

Composite Underwater



H Bronze



Series	Finish	Lamp	Optics	сст
UWUL516	Н	LED7		W
UWUL516 Composite Underwater	H Bronze	LED7 7W LED	NF Narrow Flood FL Flood	W Warm (3000K)

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- 50 watt max
- MR16 LED lamp

Housing

Injection molded fiberglass reinforced ULTEM® high performance polymer.

Base

Weighted concrete with swivel to allow up to 90° aiming.

Ring

Single-piece injection molded ULTEM® high performance polymer with gasketed lens. Twist-off operation for ease of maintenance.

Finish

Color impregnated bronze composite.

LFD

- 7W lamp with 24° or 36° beam spread.
- Delivers 70% lumen maintenance at 25,000 hours.
- Color temp (CCT): warm white (3,000K nominal).
- · Lamp only sold integral to UWUL5I6 fixture.

Wiring

Pre-wired with a 10 ft. STWA cord for hard wiring to the low voltage supply cable.

Socket

Bi-pin (GU5.3).

Labels

ETL and cETL listed.

Tempered clear glass with high impact

polycarbonate clear lens guard.

Optics

Note: Underwater fixtures are not for use in swimming pools or spas due to exposed wiring. Hand tighten screws, avoid over tightening. Consult factory for pool and spa rated transformers.

LED Transformers & Accessories



TC152-12 Standard Transformer



TSS__-15
Stainless Steel Transformers

12 & 15 Volt

Catalog Number	Description	Height	Width	Depth	PC3	PC15	T5	Т6
	Standard Transformers							
TC152-12	150VA, 12V TAP, painted	11 1/2"	3 3/4"	3 1/4"	_	_	_	_
TC152-12TP	150VA, 12V TAP, painted, w/timer, PC	11 1/2"	3 3/4"	3 1/4"	_	_	_	-
	Stainless Steel Transformers							
TC354-15	300VA, 15V Multitap, painted, hinged door	11 3/8"	63/8"	5 5/8"	*	•	*	*
TC654-15	600VA, 15V Multitap, painted, hinged door	12 5/8"	7 1/2"	6"	*	•	*	•
TC954-15	900VA, 15V Multitap, painted, hinged door	14"	8 1/8"	7"	•	•	*	*
	Stainless Steel Transformers							
TSS354-15	300VA, 15V Multitap, stainless, hinged door	11 3/8"	63/8"	5 5/8"	*	•	*	•
TSS654-15	600VA, 15V Multitap, stainless, hinged door	12 5/8"	7 1/2"	6"	*	•	*	•
TSS954-15	900VA, 15V Multitap, stainless, hinged door	14"	8 7/8"	7"	*	•	*	•

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

12 & 15 Volt

Transformers Accessories



T5 Plug-in analog transformer time clock.



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



PC3 Plug-in photo cell, 3" (78mm) lead for direct mount to transformer housing.



PC15 Plug-in photo cell, 15 ft. (46.8 m) lead for remote mount.



S3 Impact-resistant PVC stake

Mounting stake suitable for wet locations and constructed of heavy wall, impact-resistant PVC with threaded ½" (13 mm) NPT hub and ground wire.



\$7 Two-piece low voltage stake

Mounting stake is constructed of non-corrosive PVC with integral ½" (13 mm) NPS fitter. Includes ABS, removable ½" (13 mm) NPS fitter.

1¾" (35 mm) O.D. x 9½" (241 mm) long Mounting Stakes
Accessories

LED Line Voltage

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. Philips Hadco uses bright white LEDs as standard, which are developed by coating a blue LED with a phosphor, and thereby generating a white color.

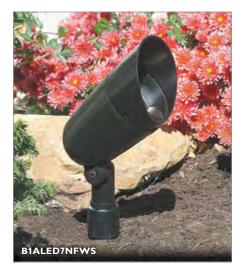
Why use LED?

- 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.





B1 Aluminum Bullet



Series	Finish	Lamp	Optics	ССТ	Shroud
B1		LED7	NF	W	
B1 Aluminum Bullet	A Black G Verde H Bronze	LED7 8W	NF Narrow Flood	W Warm	S Short L Long

Fixture will be shipped with lamp. Lamp not sold separately.

- 120 Volt
- PAR20 LED Lamp
- ½" NPS fitter
- · Shroud required

Housing

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

Shroud

H Bronze

Die-cast aluminum, provided with lens and silicone O-ring. Either long or short shroud is required.

LED

- 25,000 hours life (no mercury).
- 8W lamp with 25° beam spread. Color temp (CCT): cool white (4,000K nominal) or warm white (2,700K nominal). Lamp only sold integral to B1.

Finish

Thermoset powder coated in; black, bronze or hand-rubbed verde antiqued over black.

Optics

Provided with optional shrouds only.

Wiring

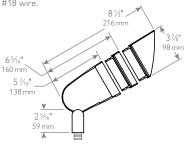
Pre-wired with high temperature #18 wire.

Socket

High temp porcelain medium base.

Labels

ETL and cETL listed.



B4 Aluminum Bullet



A Black **H** Bronze

Series	Finish	Lamp	Optics	ССТ	Shroud
B4		LED18	NF	W	
B4 Aluminum Bullet	A Black G Verde H Bronze	LED18 19W	NF Narrow Flood	W Warm	S Short L Long

Fixture will be shipped with lamp. Lamp not sold separately.

- 120 Volt
- PAR38 LED Lamp
- ½" NPS fitter

Housing

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

Shroud

Die-cast aluminum, provided with lens and silicone O-ring. Either long or short shroud is required.

LED

• 25,000 hours life (no mercury).

• 19W lamp with 25° beam spread. Color temp (CCT): warm white (3,000K nominal). Lamp only sold

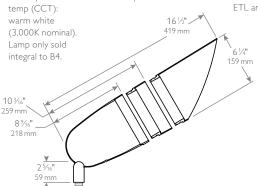
Finish

Thermoset powder coated in; black, bronze or hand-rubbed verde antiqued over black.

Optics

Clear flat tempered glass included with shroud.

Labels



BT1 Aluminum Bullet

Series	Finish	Lamp	Optics	ССТ	Shroud
BT1					
BT1 Aluminum Bullet	A Black H Bronze	LED7 7W	FL Flood NF Narrow Flood	W Warm	S Short L Long

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 120 Volt
- MR16 LED Lamp
- $\frac{1}{2}$ " NPS fitter
- Integral stepdown transformer

Housing

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

Shroud

Fully-rotatable, gasketed, cast aluminum.

LED

- 25,000 hours life (no mercury).
- 7W lamp with 25° or 35° beam spread.
- Color temp (CCT): warm white (3,000K nominal). Lamp only sold integral to BT1.

Finish

Thermoset powder coated in; black or bronze.

Optics

Clear, tempered glass.

Wiring

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

Electrical

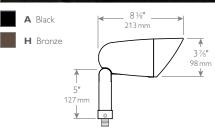
Stepdown transformer reduces line voltage to 12V. Transformer is potted/encapsulated and features thermal overload protection.
Can be used with energy-efficient halogen lamp

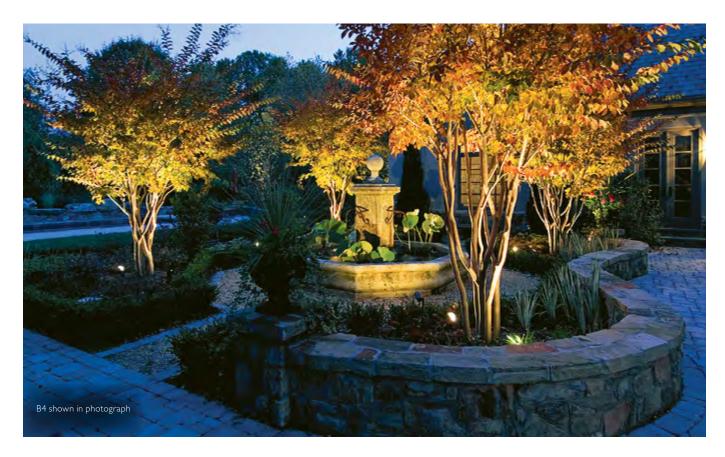
Socket

Ceramic bi-pin (GU5.3).

Labels







BT5016

Aluminum Bullet



A Black	5 %"
H Bronze	2 ½6° 71 mm

Series	Finish	Lamp	Optics	сст
BT5016				
BT5016 Aluminum Bullet	A Black H Bronze	LED7 7W	FL Flood NF Narrow Flood	W Warm

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 120 Volt
- MR16 LED Lamp
- ½" NPS fitter
- Integral stepdown transformer

Housing

Die-cast marine-grade aluminum with fullyadjustable swivel arm and vibration-proof locking teeth.

Shroud

Fully-rotatable, gasketed, cast marine-grade aluminum.

LED

- 25,000 hours life (no mercury).
- 7W lamp with 25° or 35° beam spread.
- Color temp (CCT): warm white (3,000K nominal). Lamp only sold integral to BT5016.

Finish

Thermoset powder coated in; black or bronze.

Optics

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

Wiring

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

Electrical

Stepdown transformer reduces line voltage to 12V. Transformer is potted/encapsulated and features thermal overload protection. Can be used with energyefficient halogen lamp.

Socket

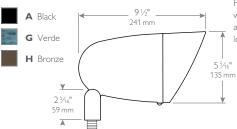
Ceramic bi-pin (GU5.3).

Labels

ETL and cETL listed.

BU3 Composite Bullet





Series	Finish	Lamp	Optics	ССТ
BU3		LED13	NF	
BU3 Aluminum Bullet	A Black G Verde H Bronze	LED13 13W	NF Narrow Flood	W Warm C Cool

Fixture will be shipped with lamp. Lamp not sold separately.

- 120 Volt
- PAR30 LED Lamp
- ½" NPS fitter
- · Long shroud included

Housing

One-piece injection molded Ultem High Performance Polymer with fully-adjustable swivel arm and vibration-proof locking teeth.

- 25,000 hours life (no mercury).
- 13W lamp with 25° beam spread. Color temp (CCT): cool white (4,000K nominal) or warm white (2,700K nominal). Lamp only sold integral to BU3.

Finish

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

Wiring

Pre-wired with high temperature #18 wire.

Socket

High temperature porcelain medium base..

Labels

MA3 Aluminum Bullet

Series	Optics	Source	ССТ	Finish	Shroud
MA3					
MA3 Aluminum Bullet	SP Spot FL Flood	D LED	W Warm C Cool	A Black H Bronze	L Long 45° (optional)

Features

- 120 Volt
- 6.4 total watts
- ½" NPS fitter

Housing

Precision machined aluminum from 6061-T6 material. Stainless Steel fasteners.

LED

- 35,000 hours life (at 30°C ambient temperature and 70% lumen maintenance).
- Color temp (CCT): 3,000K or 4,000K

Finish

Thermoset powder coated in; black or bronze.

Optio

Two beam spreads (spot - 20°, flood - 40°).

Wiring

Pre-wired with high temperature #18 wire. Input voltage range (VAC) 120-277.

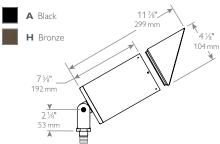
IP65 rating

Completely dust-tight and sealed to withstand low pressure jets of water from any direction.

Labels

ETL and cETL listed.





B3 Aluminum Bullet

Series	Finish	Lamp	Optics	сст
В3		LED13	NF	
B3 Aluminum Bullet	A Black G Verde H Bronze	LED13 13W	NF Narrow Flood	W Warm C Cool

Fixture will be shipped with lamp. Lamp not sold separately.

Features

- 12 Volt
- PAR30 LED Lamp
- ½" NPS fitter

Housing

One-piece injection molded Ultem High Performance Polymer with fully-adjustable swivel arm and vibration-proof locking teeth.

Shroud

Long shroud included.

LED

- 25,000 hours life (no mercury).
- 13W lamp with 25° beam spread.
 Color temp (CCT): warm white
 (2,700K nominal).
 Lamp only sold integral to B3.

Finish

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

Wiring

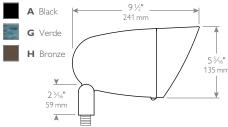
Pre-wired with high temperature #18 wire.

Socket

High temperature porcelain medium base.

Labels





LED Flood lighting

WAM1D/WBM1D

Aluminum Flood light





A Black B White G Verde

Features

- 120 Volt
- 9.1 total watts at 120 VAC
- 13 total watts at 277 VAC
- ½" NPS fitter
- 481 lumens
- > 80 CRI

Housing

Die-cast aluminum with fully-adjustable swivel arm with vibrationproof locking teeth.

Shroud

Gasketed, cast aluminum available (WAM1D).

Finish

Thermoset powder coated in; black, white, bronze or hand-rubbed verde antiqued over black.

LED

- 50,000 hours life at 25°C ambient temperature and 70% lumen maintenance.
- Color temp (CCT): cool white (4,000K) or warm white (3,000K).

Optics

Clear or frosted tempered glass. 150° LED spread (equivalent to wide flood).

Wiring

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

Electrical

Smart Select Electronic Driver 120 to 277 VAC input; 50-60Hz; autosensing.

IP66 rating

Completely dust-tight and sealed against direct jets of water.

Labels



LED Step and Aisle lighting

96 Line Aluminum Step light

Faceplates	Mounting	Wattage	Voltage	Finish
	S	4	UNIV	
Composite 960C Round in white 961C Round in black 962C Square in white 963C Square in black	S Wall or Ceiling Surface Mount	4 4W LED 3000K (85 CRI)	UNIV 120V-277V (50 or 60 hz)	BLP Black* BRP Bronze Paint WP White Paint NP Black OC Optional Color Paint
Aluminum 960A Round 962A Square				Specify RAL designation SC Special Color Paint Must supply color chip.

The 96 Line is UL and CUL listed for Wet Locations.

Four incredible watts of illumination

A remarkable advancement in architectural lighting built around the latest in LED technology – the 96 Line. With an integrated optical system that relies on a single fourwatt LED, this minimally scaled luminaire achieves a remarkable level of illumination. In pedestrian thoroughfares, and along stairways, 96 Line is an exciting design option.

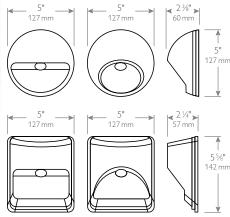
The die cast aluminum base and LED optical system are an integrated package. To replace the LED, simply remove the faceplate, and install a new module. Plug and play. Fast, simple, easy does it.

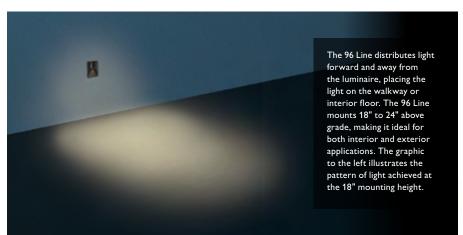
An integrated LED, driver and optic — allows the 96 Line to achieve maximum performance from minimal power.

Integral leveling bubble simplifies — installation, assuring perfect alignment of each 96 Line steplight.









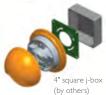
Subtle downlight wall washing with wide and uniform distribution are noteworthy characteristics of the 96 Line.

Mounting

Mounting over a 3.5" or 4" recessed octagonal box



Mounting over a 4" Recessed Square Box



Two choices of faceplates

A composite injection-molded version with an integral black finish, or die cast aluminum in the 960 and 962 styles. All faceplates are lightly textured and are provided with a UV-resistant, semi-gloss finish in standard, optional or special colors. Featuring soft corners, uniform distribution, concealed mounting hardware and consistent visual styling cues, the 96 Line is a smart and practical choice for step and aisle lighting.



960C Round in white



961C Round in black



962C Square in white

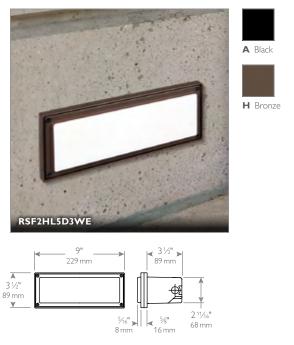


963C Square in black

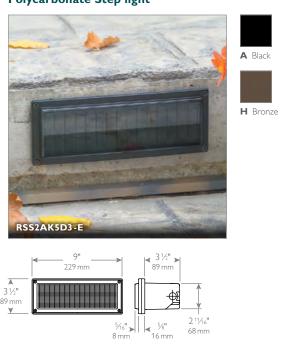
^{*} Standard color of composite material.

LED Step lighting

RSF2
Polycarbonate Step light



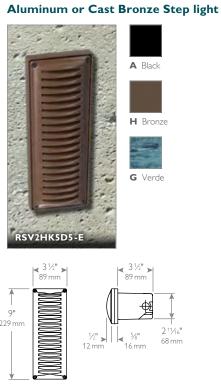
RSS2
Polycarbonate Step light



RSC2
Aluminum or Cast Bronze Step light

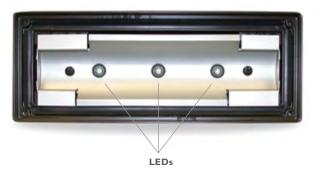


RSV2



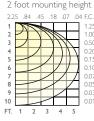
LED Step lighting

RS Step lights



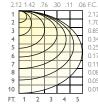
Photometry

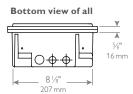
Three 1W LEDs 2 foot mounting height



Photometry

Five 1W LEDs 2 foot mounting height





Series	Finish	Optics	Lamp	Lens	Voltage
					E
RSF2 Polycarbonate Step light	A Black H Bronze	L5 Opal lens	D3 (3) 1W LEDs D5 (5) 1W LEDs	W Warm amber	E 120V
RSS2 Polycarbonate Step light	A Black H Bronze	K5	D3 (3) 1W LEDs D5 (5) 1W LEDs	- None	E 120V
RSC2 Aluminum or Cast Bronze Step light RSV2 Aluminum or Cast Bronze Step light		K5 Aluminum or Cast Bronze louvers	D3 (3) 1W LEDs D5 (5) 1W LEDs	W Warm amber	E 120V
Series	Finish	Option			
RS2					
RS2	A Black G Verde H Bronze N Cast Bronze	HO Housing only (pre-shipment)			

^{*} Use when Housing Only (HO) is ordered for pre-shipment to complete catalog number of fixture without housing.

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 & RSV2).

Reflector

Specular aluminum formed reflector.

Faceplates

Cast louver

- 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 lens

• Opal UV stabilized injection molded polycarbonate with frosted glass siliconed on inside for durability.

Louvers

insert.

• Clear UV stabilized injection molded polycarbonate with 45° louvered screen

Finish

- Polycarbonate Color impregnated composite material in; black or bronze (RSF2 / RSS2).
- Aluminum parts have zinc-rich primer and for durability a thermoset powder coat in; black, bronze or hand-rubbed verde antiqued over black (RSC2 /RSV2).
- · Natural cast bronze finish (RSC2).

LED

- Delivers 70% lumen maintenance at 50,000 hours.
- Cool white (6,300K nominal).
- Amber lens option (3,000K).
- (3) 1W LEDs: 4W total.
- (5) 1W LEDs: 5W total.

ADA compliant

Electrical

Integral Advance

with integral surge

electronic LED driver

protector. UL Class 2.

with #18 AWG wire.

-40° C/F minimum starting

temperature. Pre-wired

Electrical components are

mounted on a removable

tray for easy installation

after housing is installed.

Compliant when used in indoor and outdoor wall applications.

Wiring

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

Accessories

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

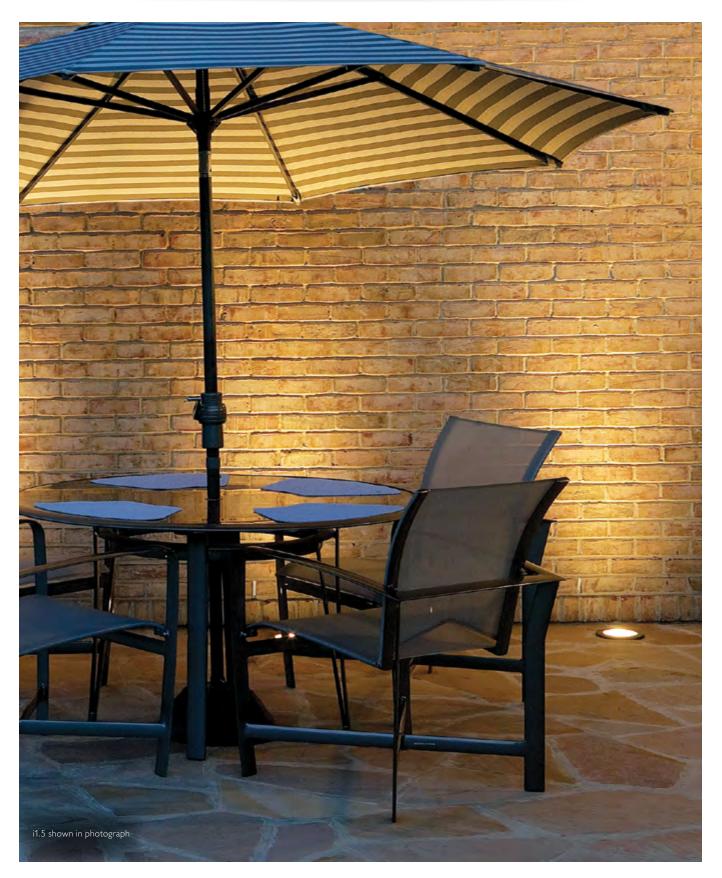
Construction mounting kits

MAKM Masonry kit MAKNS New Stud Wall kit MAKES Existing Stud Wall kit

IP66 rating

Dust tight and sealed against direct jets of water.

Labels



i1.5

Composite Inground with Trim Ring

Integrated Lamp

Series	Finish	Lamping	Optics	ССТ	Voltage
i1.5		LED			
i1.5 Composite Inground SS Stainless Steel	LED10 10W MR16 Bi-Pin	SP Spot	W Warm	120 120V	
	SS Stainless Steel		FL Flood	W Warm C Cool	277 277V
		LED13 13W PAR30 Short	SP Spot	W Warm	120 120V
			FL Flood	W Warm C Cool	

Fixtures with PAR30 LED lamp will be shipped with fixture loose, not installed. Fixtures with MR16 lamp will be shipped with lamp installed. Lamps not sold separately.

Integrated Module

Series	Finish	Output	CCT	
i1.5				
i1.5 Inground	N Cast Bronze	SP Spot	W Warm	
Trim Ring	SS Stainless Steel	NF Narrow Flood	C Cool	
		FL Flood		

Must order LEDADP, Adaptor Ring if ordering an internal accessory.

Features

- 120 Volt
- MR16 LED Lamp
- PAR30S LED Lamp
- LED module

Housing

Single-piece compression molded, fiberglass reinforced polyester composite housing. Separate sealed compartments. Potted factory seal with anti-wicking wiring. Hinged lens ring with captive lens and fasteners. Only two fasteners required to secure lens ring. UL Listed silicone-filled wire nuts provided—no encapsulant required.

Trim ring

Natural cast bronze or cast stainless steel. Secured with stainless steel screws (supplied standard).

Rock guard



Natural cast bronze or cast stainless steel. Secured with stainless steel screws (sold separately).

Half dome



Field adjustable for directional glare control. Natural cast bronze or cast stainless steel. Secured with stainless steel screws (sold separately).

Lens

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

LED lamp

- 25,000 hours life (no mercury).
- 10W with 15° or 36° beam spread.
- 13W with 22° or 25° beam spread (only sold integral to i1.5 fixture).
- Color temp. (CCT): cool white (4,000K nominal) or warm white (2,700K nominal).

LED module

3,000K or 4,000K CCT. 17 Total Watts consumed. Approx. 50,000 hours of operation life at 25°C ambient temperature and 70% lumen maintenance.

Socket

EnduraLED: MR16 Bi-pin. EnduraLED: Medium Base.

Optics

Available with spot, narrow flood or flood beam pattern. EnduraLED lamps: spot or flood beam pattern.

Gasket

Single-piece wrap around molded 100% silicone for lens assembly. Gasket for junction box cover is single-piece die-cut neoprene.

Aiming

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

ADA compliant

Compliant when used in concrete and flushmounted with CPS15.

Electrical

LED module is a key-slotted ballast assembly with quick disconnects mounted to cast aluminum bracket for easy maintenance. e-Vision electronic ballasts automatically detect 120-277 volts, 50/60 Hz, HPF.Ballasts provide ± 5% lamp power regulation with ± 10% input voltage regulation. Incandescent (MR16) - utilizes stepdown transformer.

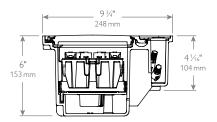
IP66/68 rating

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).

Labels







i2.5 Composite Inground with Trim Ring





N Cast Bronze



SS Stainless Steel



Series	Finish	Lamping	Optics	ССТ
i2.5				
i2.5 Composite Inground	N Cast Bronze SS Stainless Steel	-	SP Spot NF Narrow Flood FL Flood	W Warm* C Cool*
		LED12 12W	SP Spot	W Warm
			NF Narrow Flood	C Cool
		LED13 13W PAR30 Long	NF Narrow Flood	W Warm

^{*} Must order LEDADP, Adaptor Ring if ordering an internal accessory. Fixtures with PAR30 LED lamp will be shipped with fixture loose, not installed. Lamps not sold separately.

Features

- 120 Volt
- PAR30L LED
- 17 total watts

Housing

Single-piece compression molded, fiberglass reinforced polyester composite housing. Separate sealed compartments. Potted factory seal with antiwicking wiring. Hinged lens ring with captive lens and fasteners. Only two fasteners required to secure lens ring. UL Listed silicone-filled wire nuts provided—no encapsulant required.

Trim ring

Natural cast bronze or cast stainless steel. Secured with stainless steel screws (supplied standard).

Rock guard

Natural cast bronze or cast stainless steel. Secured with stainless steel screws (sold separately).

Half dome

Field adjustable for directional glare control. Natural cast bronze or cast stainless steel. Secured with stainless steel screws (sold separately).

Lens

Clear convex, tempered borosilicate for highimpact resistance. 3,000 lb live-load rated, drive-over.

LED lamp

- 25,000 hours life (no mercury).
- 12W with 22° or 25° beam spread. Color temp. (CCT): cool white (4,00K nominal) or warm white (2,700K nominal
- 13W with 25° beam spread (only sold integral to i2.5 fixture). Color temp. (CCT): warm white (2,700K nominal).

Socket

Incandescent PAR30 Long EnduraLED: Medium Base.

Optics

Available with spot, narrow flood or flood beam pattern. EnduraLED lamps: spot or flood beam pattern.

Gasket

Single-piece wrap around molded 100% silicone for lens assembly. Gasket for J-box cover is single-piece die-cut neoprene.

LED module

4,000K CCT or 3,000K CCT. Approx. 50,000 hours of operational life (at 25°C ambiant temperature and 70% lumen maintenance). >80CRI.

Aiming

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

ADA compliant

Compliant when used in concrete and flushmounted with CPS15.

Electrical

LED module is a key-slotted ballast assembly with quick disconnects mounted to cast aluminum bracket for easy maintenance. e-Vision electronic ballasts automatically detect 120-277 volts, 50/60 Hz, HPF. Ballasts provide ± 5% lamp power regulation with ± 10% input voltage regulation. Incandescent (MR16) - utilizes stepdown transformer.

IP66/68 rating

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).

Labels

i3.5

Series	Finish	Lamping	Optics	ССТ	
i3.5	N				
i3.5 Composite Inground	N Cast Bronze	-	SP Spot NF Narrow Flood FL Flood	W Warm C Cool	
		LED18 19W	SP Spot NF Narrow Flood	W Warm	

Fixtures with PAR38 LED lamp will be shipped with fixture loose, not installed. Lamps not sold separately.

Features

- 120 Volt
- PAR38L LED
- 18 total watts

Housing

Single-piece compression molded, fiberglass reinforced polyester composite housing. Separate sealed compartments. Potted factory seal with antiwicking wiring. Hinged lens ring with captive lens and fasteners. Only two fasteners required to secure lens ring. UL Listed silicone-filled wire nuts provided—no encapsulant required.

Trim ring

Natural cast bronze. Secured with stainless steel screws (supplied standard).

Rock guard

Natural cast bronze. Secured with stainless steel screws (sold separately).

Half dome

Field adjustable for directional glare control. Natural cast bronze. Secured with stainless steel screws (sold separately).

Lens

Clear convex, tempered borosilicate for highimpact resistance. 3,000 lb live-load rated, drive-over.

LED lamp

- 25,000 hours life (no mercury).
- 19W lamp with 15° or 25° beam spread (only sold integral to i3.5 fixture).
- Color temp. (CCT): warm white (3,000K nominal).

Socket

Incandescent, PAR38 and MH E-17: 4kv rated medium base porcelain socket..

Optics

Available with spot, narrow flood or flood beam pattern. EnduraLED lamps: spot or flood beam pattern.

Gasket

Single-piece wrap around molded 100% silicone for lens assembly. Gasket for J-box cover is single-piece die-cut neoprene.

LED module

4,000K CCT or 3,000K CCT. Approx. 50,000 hours of operational life (at 25°C ambiant temperature and 70% lumen maintenance). >80CRI.

Aiming

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

ADA compliant

Compliant when used in concrete and flushmounted with CPS35.

Electrical

LED module is a key-slotted ballast assembly with quick disconnects mounted to cast aluminum bracket for easy maintenance. e-Vision electronic ballasts automatically detect 120-277 volts, 50/60 Hz, HPF. Ballasts provide ± 5% lamp power regulation with ± 10% input voltage regulation. Incandescent (MR16) - utilizes stepdown transformer.

IP66/68 rating

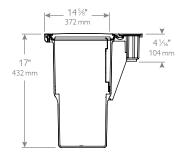
Dust-tight and dual rated – sealed against direct jets of water and against continuous immersion up to a depth of 1 meter (3.28 feet).

Labels

ETL and cETL listed.



N Cast Bronze



iT216

Composite Inground with Trim Ring



Series	Guard	Finish	Lamping	Optics	ССТ
iT216					
iT216 Composite Inground	- None	N Natural Cast Bronze H Bronze	LED7 7W	NF Narrow Flood FL Flood	W Warm
	G Rock Guard	H Bronze	LED7 7W	NF Narrow Flood FL Flood	W Warm

Fixture will be shipped with lamp installed. Lamp not sold separately.



Features

- 120 Volt • MR16 LED Lamp
- Housing

Housing

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

Trim ring

Compression molded polyester, or die-cast natural cast bronze.

Rock guard

Directional for glare control. Compression molded polyester.

Lens

Clear convex, tempered soda-lime glass for high impact resistance. 2,200lb live-load rated, standard walkover.

LED

- 7W lamp with 25° or 35° beam spread (only sold integral to iT216 fixture).
- Color temp. (CCT): warm white (3,000 nominal) or
- 25,000 hours life (no mercury).

Aiming

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

Electrical

Integral electronic transformer converts 120v to 12v.

Labels

ETL and cETL listed.

Configurations With and without rock guard option.



Bronze Finish with Rock Guard



Natural Cast Bronze Finish

i3

Composite Inground with Trim Ring

Series	Guard	Finish	Lamping	Optics	ССТ
i3					
i3 Composite Inground	- None G Rock Guard	N Natural Cast Bronze SS Stainless Steel* H Bronze	LED7 8W	NF Narrow Flood	W Warm C Cool

Fixture will be shipped with lamp installed. Lamp not sold separately.

Features

- 120 Volt
- PAR20 LED Lamp

Housing

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

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. 2,200lb live-load rated, standard walkover.

LED

- 8W lamp with 25° beam spread (only sold integral to i3 fixture).
- Color temp. (CCT): warm white (2,700 nominal) or cool white (4,000K nominal for 7W only).
- 25,000 hours life (no mercury).

Aiming

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

Electrical

Standard quad-volt core and coil mounted on key-slotted removable tray with quick connect harness.

IP66/68 rating

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).

Labels

ETL and cETL listed.



N Natural Cast Bronze

SS Stainless Steel





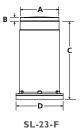
^{*} Rock Guard (G) not compatible with Stainless Steel (SS) Finish configuration.

SL-23

Inground



Series	Finish	Optics	ССТ	Voltage	Current
SL-23					350
SL-23 Inground	BK Black BZ Bronze WH White GR Green GY Gray NA Natural Aluminum CC Custom Color	SP Spot NF Narrow Flood FL Flood	W Warm C Cool	120 120V 208 208V 240 240V 277 277V	350 350A



Dimensions A		В		С		D		Weight		
Luminaire	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-23-F	6.95	177	0.75	19	14.1	358	8.5	216	19.0	8.6

Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking device. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Optics

Available with spot, narrow flood, or flood beam patterns.

LED Module

3000K or 4000K CCT. 17 total watts consumed. Approximately 50,000 hours of operation life @ 25C ambient temperature and 70% lumen maintenance.

Electrica

e-Vision electronic ballasts automatically detect 120-277 volts 50/60 Hz.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Lens

Standard 3/8" clear tempered flat borosilicate glass (F) or ADA anti slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional linear spread lens also available.

Finish

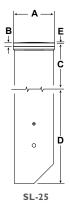
Housing is black. Options can be painted in standard or custom colors. Powder coat is standard.

Labels

SL-25 Inground

Series	Finish	Optics	ССТ	Voltage	Curent	Mounting
SL-25						
SL-25 Inground	BK Black BZ Bronze WH White GR Green GY Gray NA Natural Aluminum CC Custom Color	SP Spot NF Narrow Flood FL Flood	W Warm C Cool	120 120V 208 208V 240 240V 277 277V	350 350A	DB-12* 12" Direct Burial DB-24* 24" Direct Burial

 $^{^{*}}$ Height above grade. All units include an extra 18"/457mm of tube for direct burial.



Direct Burial: 6 5/8" diameter

direct burial pipe with provision for

Splice Compartment Supplied

with two 3/4" NPT conduit entrances.

Sealed with gasketed die cast aluminum

Lamp & Ballast: Low copper heavy duty

Connection to ballast compartment by way

Housing

anti-rotation device.

of anti-wicking device.

cover plate. Suitable for

through wiring.

cast aluminum.

Dimensions A		В		С		D		Weight		
Luminaire	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-24-F	6.95	177	0.75	19	30.0	762	18.0	457	20.0	9



Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Lens

Standard 3/8" clear tempered flat borosilicate glass. Flat lens will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket.

Optics

Available with spot, narrow flood or flood beam pattern.

Finish
Housing is black. Lens frame can be painted in standard or custom colors. Powder coat is standard.

operation life @ 25°C ambiant temperature

4000K or 3000K CCT, 12 total Watts

consumed. Approx. 50,000 hours of

and 70% lumen maintenance.

Labels

ETL and CETL listed for wet location, direct

burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

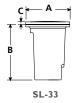


Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information. Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

SL-33 Inground



Series	Finish	Optics	сст	Voltage	Current
SL-33					
SL-33 Inground	BK Black BZ Bronze WH White GR Green GY Gray NA Natural Aluminum	SP Spot NF Narrow Flood FL Flood	W Warm C Cool	120 120V 208 208V 240 240V 277 277V	350 350A 530 530A
	CC Custom Color				



Dimensio	Dimensions A			В	(С	Weight		
Luminaire	Inch	mm	Inch	mm	Inch	mm	lbs.	kg	
SL-33	8.75	222	11.32	287	1.43	37	16.0	7.2	

Housing

Compression molded Rhinolite composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Ring (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking chamber. Sealed with gasketed aluminum cover plate. Suitable for through wiring.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Lens

Standard 7/16" clear tempered flat borosilicate glass (F). All flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional flat ADA anti slip and walkover lens (ADA), flat wall wash lens (WW) and 1/4" clear tempered convex borosilicate glass lens (C).

LED Module

3000K or 4000K CCT. 17 total watts consumed. Approximately 50,000 hours of operation life @ 25C ambient temperature and 70% lumen maintenance.

Electrical

e-Vision electronic ballasts automatically detect 120-277 volts 50/60 Hz.

Finish

Housing is black. Options can be painted in standard or custom colors. Powder coat is standard.

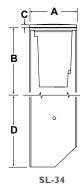
Labels

SL-34 Inground

Series	Finish	Optics	ССТ	Voltage	Current	Mounting
SL-34					350	
SL-34 Inground	BK Black BZ Bronze WH White GR Green GY Gray NA Natural Aluminum CC Custom Color	SP Spot NF Narrow Flood FL Flood	W Warm C Cool	120 120V 208 208V 240 240V 277 277V	350 350A	DB-12* 12" Direct Burial DB-24* 24" Direct Burial



^{*} Height above grade. All units include an extra 18"/457mm of tube for direct burial.



Dimensio	ns .	Α		В		С		D	Wei	ght
Luminaire	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-34	8.75	222	30	762	1.43	37	18	457	24.0	10.8

Housing

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Ring and Debris Cover supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking device. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Lens

Standard 3/8" clear tempered flat borosilicate glass. Flat lens will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket.

Optics

Available with spot, narrow flood or flood beam pattern.

LED Module

4000K or 3000K CCT, 12 total Watts consumed. Approx. 50,000 hours of operation life @ 25° C ambiant temperature and 70% lumen maintenance.

Electrical

Electronic ballasts automatically detect 120-277 volts 50/60 Hz.

Finish

Housing is black. Lens frame can be painted in standard or custom colors. Powder coat is standard.

Labels

SL-43 Inground



Series	Finish	Optics	ССТ	Voltage	Current
SL-43					
SL-43 Inground	BK Black BZ Bronze WH White GR Green GY Gray NA Natural Aluminum CC Custom Color	SP Spot NF Narrow Flood FL Flood	W Warm C Cool	120 120V 208 208V 240 240V 277 277V	350 350A 530 530A



Dimensions A		В		С		Wei	ght	
Luminaire	Inch	mm	Inch	mm	Inch	mm	lbs.	kg
SL-43	12.25	311	0.80	20	16.0	405	26.0	11.7

Housing (Lamp/Ballast)

Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Rng (TR) and Debris Cover (DC) supplied standard.

Splice Compartment

Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking device. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens Frame

Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Lens

Standard 3/8" clear tempered flat borosilicate glass (F) or ADA anti slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket.

LED Module

3000K or 4000K CCT. 17 total watts consumed. Approximately 50,000 hours of operation life @ 25C ambient temperature and 70% lumen maintenance.

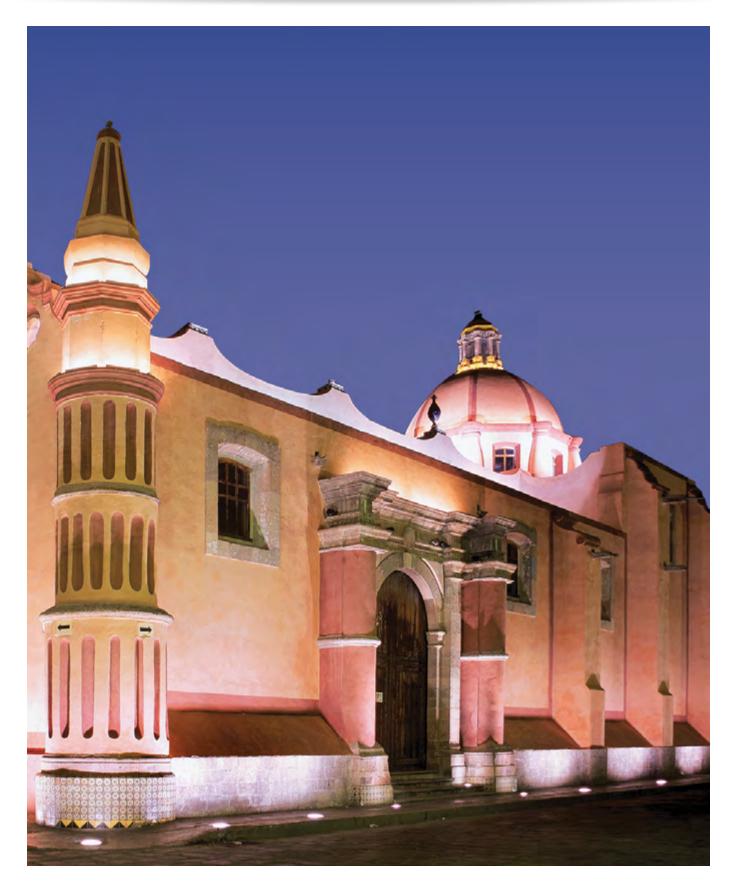
Electrical

e-Vision electronic ballasts automatically detect 120-277 volts 50/60 Hz.

Finish

Housing is black. Options can be painted in standard or custom colors. Powder coat is standard.

Labels



LED Bollard lighting

RD6/RF6

Aluminum Bollard



Series	Finish	Optics	Wattage	ССТ	Voltage
RD6 Round RF6 Square	A Black H Bronze	KF Type V Cone K5 Type V Refractor	12L 9.5W (LED/Med. Socket)	W Warm	E 120V
	I Grey	KF Type V Cone	10 25W (10 LED/Module)	W Warm C Cool	A 120V-277V

Bollard

The RD6 and RF6 bollard is now equipped with state-of-the-art LED lighting solutions that deliver a better quality of light while also providing energy savings.

Construction

1100-0 spun aluminum alloy head is secured to the bollard tube with a single stainless steel allen head screw providing easy removal for relamping. Easy access to lamp. 6" dia. extruded aluminum with a wall thickness of 0.125".



EnduraLED

The Philips EnduraLED A19 lamp is 2700K warm white and delivers 800 lumens and is also dimmable (consult factory for dimming capabilites).

- Lamp life is rated at 25,000 hours.
- 120V, ETL and cETL listed.

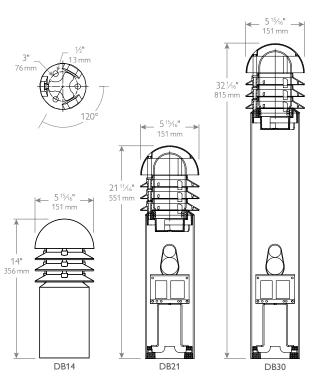
Integrated Module

- 1050 mA
- 4,000K (4K) at 100 lumen per LED or 3,000K (3K) at 66 lumen per LED (10 LEDs = 25 Watts).
- Lamp life is rated at 70,000 hours.
- Image is for reference only.

LED Bollard lighting

DB14/DB21/DB30

Aluminum Bollard







Series	Finish	Finish	Optics	Wattage	Voltage
DB			Α0	12L	E
DB Aluminum Bollard	14 14" 21 21" 30 32"	A Black H Bronze	A0 Symmetric	12L 9.5W	E 120V

Upper housing

Die-cast aluminum (including louvers). 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.

EnduraLED

The Philips EnduraLED A19 lamp is 2700K warm white and delivers 800 lumens and is also dimmable (consult factory for dimming capabilites).

- Lamp life is rated at 25,000 hours.
- 120V, ETL and cETL listed.

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.

Socket

Incandescent and HID: medium base. Fluorescent: GX24q-3 or GX24q-4 base.

Gasket

Flat silicone gasket.

Reflector

Highly reflective white paint on spun aluminum rings, mounted on the underside of louvers.

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 mounted below 8'. Check with local authorities before specifying alternate voltages.

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.

Labels

ETL and cETL listed.



A Dlask



H Bronze

59

Palermo

Residential lighting

Features

- B57400 = medium fixture B57600 = large fixture
- Cast aluminum construction.
- All finishes available*
- Clear, frosted, thumb print and linen globes available.

Panels/Lens/Globe

Precision designed, glass globe: linen, thumb print, frosted and clear glass available. Linen Glass Globe (U) is standard.

Lamping

12 total watts consumed; running at 700 mA. 4,000K (4K) color temperature, delivering 100 lumen per LED or 3,000K (3K) delivering 66 lumen per LED (10 LED's). Based on in-situ thermal testing and data from Philips Lumileds and Philips Advance, fixture can be expected to reach 55,000 hours (at >L70 lumen maintenance @ 25°C).

Electrical

Smart Select™ Electronic Driver, 120-277 VAC, 50-60Hz, Autosensing, 6Kv Surge protection. -40°C to ±50°C Operating temperature. Fixture is pre-wired with 18 AWG black, white, and ground wires. Lantern will be prewired and tested.

Labels

ETL listed.

*See Finishes & Materials in the Quick references section at the beginning of the catalog for Residential finishes.





B57410LED
H: 23"
W: 11 ¾"
Ext: 143/4"
T/O: 63/8"

H: 23"
W: 11³/₄"
Ext: 14³/₄"
T/O: 10"





included







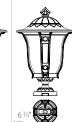
B57612LED H: 30 ¼" W: 15 ¾" Ext: 18 ½" T/O: 12 ½"



B57620LED H: 273/8" W: 153/4" H (O/A): 393/8"



H: 24 %" W: 15 ¾" Post is not included



H: 237/8" W: 153/4"

Residential lighting



Features

- B5800 = medium fixture
- All finishes available*
- Clear, frosted, thumb print and linen globes available.
- Cast aluminum construction.

Panels/Lens/Globe

Precision designed, glass globe: linen, thumb print, frosted and clear glass available. Linen Glass Globe (U) is standard.

Lamping

12 total watts consumed; running at 700 mA. 4,000K (4K) color temperature, delivering 100 lumen per LED or 3,000K (3K) delivering 66 lumen per LED (10 LED's). Based on in-situ thermal testing and data from Philips Lumileds and Philips Advance, fixture can be expected to reach 55,000 hours (at >L70 lumen maintenance @ 25°C).

Electrical

Smart Select™ Electronic Driver, 120-277 VAC, 50-60Hz, Autosensing, 6Kv Surge protection. -40°C to ±50°C Operating temperature. Fixture is pre-wired with 18 AWG black, white, and ground wires. Lantern will be prewired and tested.

Labels

ETL listed.

*See Finishes & Materials in the Quick references section at the beginning of the catalog for Residential finishes.



H: 26%" W: 11 ¼" dia. or

12 ¾" dia. or 12 ¾" dia. with scrolls Ext: 16" or 16 %" with scrolls T/O: 17 ¾"

558412LED H: 26%" W: 11 ½" dia. or 12 ¾" dia. with scrolls Ext: 16" or 16 ¾" with scrolls T/O: 9 ½"







B58430LED
H: 27¾"
W: 11¼" dia. or
12¾" dia.
with scrolls
Post is not included



B58460LED

H: 22%"
W: 11 ¼" dia. or 12¾" dia. with scrolls

Manor

Residential lighting

Features

- Cast aluminum construction with painted finials and spindles.
- All panels and finishes available*
- Clear acrylic panels (except where noted not available).
- Porcelain medium base socket with painted socket cover.
- Higher wattages may be used only with glass panels installed.

Lamping

4,000K (4K) color temperature or 3,000K (3K). Lumileds Rebel LEDs (2) 10 up boards (100 lumens per watt each LED) on aluminum core PCB. Cast aluminum heat sink with sealed lens.

Ballast

Smart select electronic 25 watts, 700MA, 36-volt driver 120-277 VAC; 50-60 Hz; auto sensing with internal 6kv surge protection.

Electrical

Fixture is pre-wired with 18 AWG black, white, and ground wires. Lantern will be prewired and tested.

Labels

ETL listed.

*See Finishes & Materials in the Quick references section at the beginning of the catalog for Residential finishes.



Manor

Residential lighting

Standard: Clear acrylic panels.

B4100 series (medium 100w max.)



B4101 H: 143/8" W: 11 3/4" Ext: 11 1/4" T/O: 10%"



5 1/4" × 7 1/2"



B4110 B4113* **B4115** B4118* H: 193/4" H: 19 3/4" H: 27% H: 27 3/8" W: 11 3/4" W: 11 3/4" W: 11 3/4" W: 11 3/4" Ext: 12 ½" Ext: 12 1/2" Ext: 121/2" Ext: 12 1/2" T/O: 121/4" T/O: 121/4" T/O: 121/4" T/O: 121/4"





B41FRM³ H: 17" W: 11 ¾" Ext: 15 1/8" T/O: 10"





B4120 B2550* H: 13 1/2" H: 143/8" W: 11 3/4" W: 11 3/4" H(O/A): 42 3/4"





B4130 B4131* H: 18 1/2" H: 18 1/2" W: 11 ¾" W· 11 3/4" Post is not included.

B5500 series (large 100w max.)



B5501* B5501-1* H: 22%" H: 273/4" W: 13 7/8" W: 137/8" Ext: 13 1/8" Ext: 13 1/8" T/O: 1434" T/O: 1434"





B5510 B5513* H: 29 %" H: 29 %" W: 137/8" W: 137/8" Ext: 13%" Ext: 13%" T/O: 22 1/8" T/O: 22 1/8"









H: 30" H: 24 1/2" W: 13%" W: 133/8" Ext: 16 1/4" Ext: 16 1/8" T/O: 20" T/O: 10"

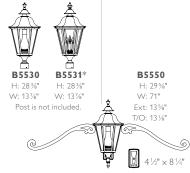


Standard: Clear acrylic panels and frosted chimney. Optional: 3 or 4-light painted candelabra candle cluster (25w max. per socket).



B5520 B5521** H: 223/4" H: 28 1/8" W: 13%" W: 137/8" H(O/A): 50





B6100 series (extra large 200w max.)



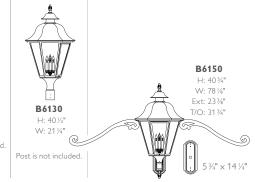






B6160 H: 43%" W: 21 1/4" Pier base is included.





Standard: Clear acrylic panels and frosted chimney - glass not available.

^{*} Clear beveled glass panels.

^{**} Frosted glass panels are standard and chimney NOT available.

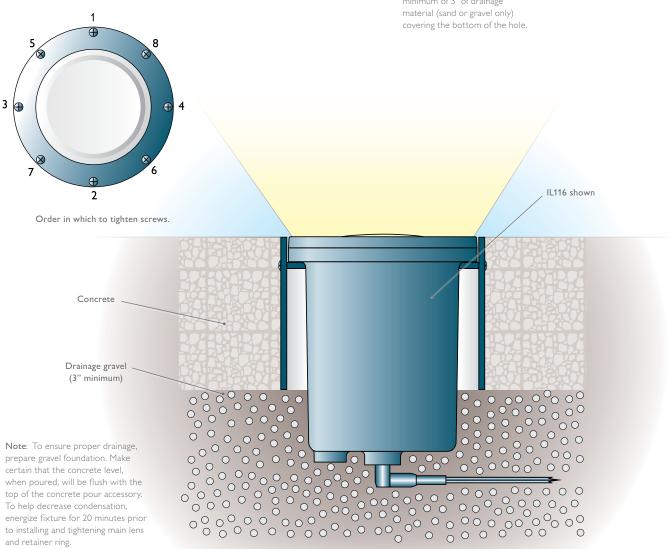
Low Voltage Concrete Installation

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.

Installation process

- Remove trim ring and lens and install specified lamp.
 Replace trim ring and lens.
- 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 overtighten). Secure assembly to the final location with re-bar or other anchoring device.
- 3. Excavate soil where the fixture is to be installed.
- 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

- 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).
- Pour concrete. Remember that fixture position cannot be altered after the concrete sets.
- 8. Turn power on at transformer.



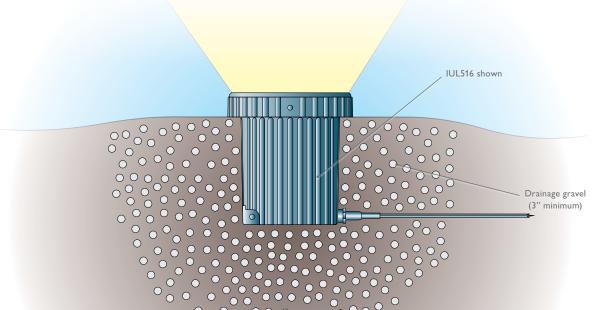
Low Voltage Ground Installation

Installation process

- 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.
- 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.



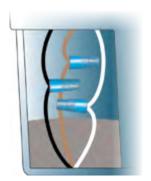
Ground Installation



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.

Line Voltage Concrete Installation

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.



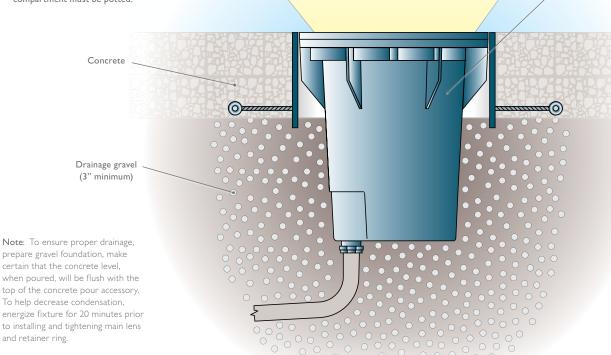
Wires must be connected with silicone wire nuts and compartment must be potted.

Installation process

- 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.
- 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 overtighten). 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 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.

- 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.
- 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.

14 shown

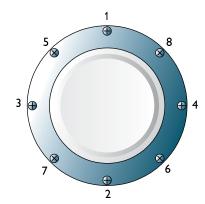


Line Voltage Ground Installation

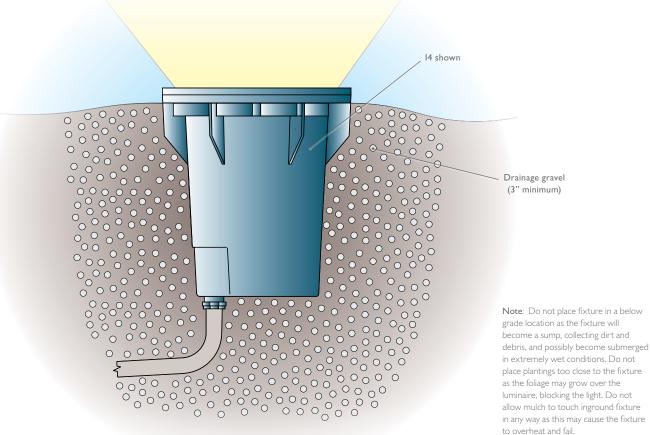
Installation process

- 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.
- 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.
- 3. After drainage material is installed in the bottom, place fixture housing into hole, backfilling 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.

- 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.
- Re-install ballast tray. Use silicone wire nuts (by others) to connect supply wire to fixture wire within housing.
- Re-install balance of electrical components. Plug lamping module into quick connect, if applicable.
- 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.



Order in which to tighten screws.

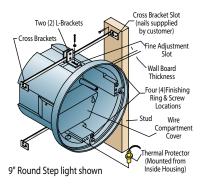


Line Voltage Step light Installation

Round Aperture

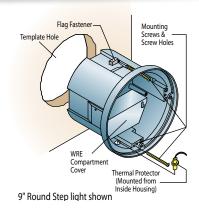
New Stud Wall Installation process (use accessory kit #MAKNS)

- 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 $\frac{1}{2}$ " 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).



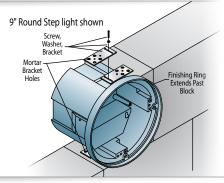
Existing Stud Wall Installation process (use accessory kit #MAKES)

- 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.)
- 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).



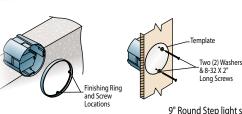
Masonry Installation process (use accessory kit #MAKM)

- 1. Install screw through washer and lower masonry brackets and into tapped hole on bottom of the housing.
- 2. Remove the $\frac{1}{2}$ " NPT plugs from the sides/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 and 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.

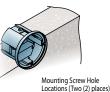


Concrete Pour Installation process (hardware included with each fixture)

- 1. Level supplied template on wood support frame and drill 3/16" diameter clearance holes as marked.
- 2. Remove the $\frac{1}{2}$ " 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.











Finishing Ring Mount OR

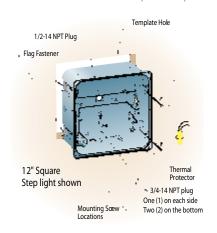
Flush Mount

Line Voltage Step light Installation

Square Aperture

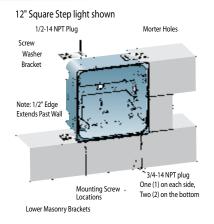
New or Existing Stud Wall Installation process (use accessory kit #MAKES)

- 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 desired ½" 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.
- Tighten the mounting screws until the flag fasteners are drawn tight against the inner surface of the wall.
- 8. Install thermal protector.



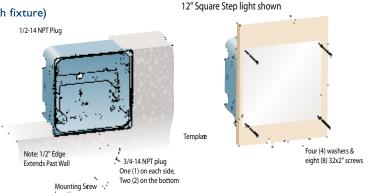
Masonry Installation process (use accessory kit #MAKM)

- Install two (2) screws through washers and lower masonry brackets and into tapped holes on bottom of the housing.
- 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.
- Press housing with lower masonry brackets into the mortar so that mortar comes through the holes of the brackets.
- 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.



Concrete Pour Installation process (hardware included with each fixture)

- Install two (2) screws through washers and lower masonry brackets and into tapped holes on bottom of the housing.
- 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.
- 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.



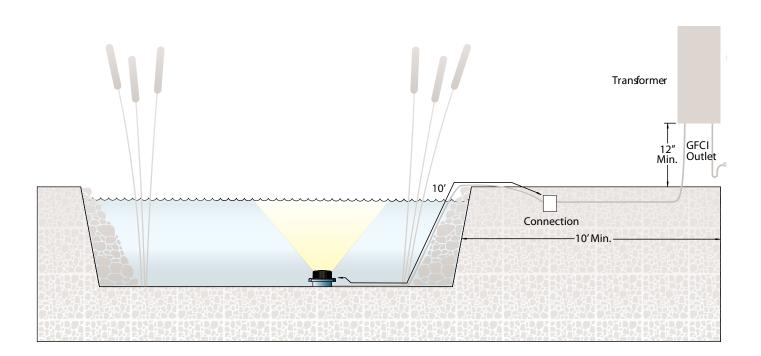
Low Voltage Pond Installation

Fixtures are intended for use in water gardens, fountains or ponds and not for use in swimming pool applications.

Underwater lighting techniques may include up-lighting above-surface water features, or illuminating the water itself.

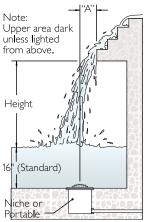
Installation process

- 1. Remove screw(s) and lens cover and install lamp.
- 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.
- Do not allow the underwater fixture to freeze as this may cause fixture failure.



Line Voltage Waterfall and Fountain Installation

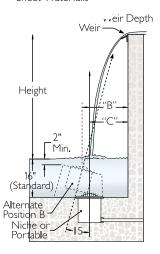
Aerated Waterfalls



Waterfall height	A	В	С	Light spacing	Wattage required	
1'	2"	NR	6"	2'	250W	
2'	4"	NR	8"	2'	250W	
3'	6"	16"	12"	3'	250W	
4'	8"	18"	16"	3'	250W	
5'	10"	20"	18"	4'	250W	

NR = Not Recommended.

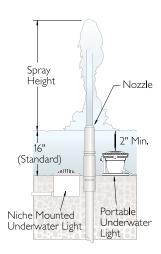
Sheet Waterfalls



Waterfall height	A	В	С	Light spacing	Wattage required
1'	2"	NR	6"	2'	250W
2'	4"	NR	8"	2'	250W
3'	6"	16"	12"	3'	250W
4'	8"	18"	16"	3'	250W
5'	10"	20"	18"	4'	250W

NR = Not Recommended.

Fountains

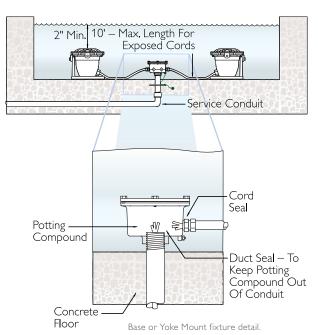


Spray height	Qty of lights	Wattage (portable)	Wattage (niche)
0-3'	1	250W	250W
3-10'	2	250W	NR
10-20'	3	250W	NR

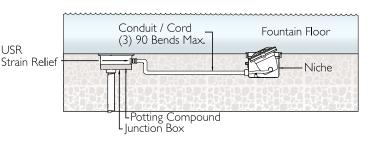
NR = Not Recommended.

Junction Box and Fixture Installation

Base or Yoke Mount



Niche Mount/Fountains only



Conductor Size A.W.G.	Requires space in box for each conductor
18	1.5 CU.IN.
16	1.75 CU.IN.
14	2.0 CU.IN.
12	2.25 CU.IN.
10	2.5 CU.IN.
8	3.0 CU.IN.
6	5.0 CU.IN.

All conductors are to be considered in calculations.

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