



Old world craftsmanship . . . today's technology™

LOW VOLTAGE LANDSCAPE LIGHTING



FOR HOMES OF DISTINCTION

LOW VOLTAGE LANDSCAPE LIGHTING

Beauty

Introduction

- ▶ Low Voltage Landscape Lighting is breathtaking in its beauty and provides a safe, secure and welcoming environment. Unlike the glaring high voltage lighting of the past, low voltage lighting provides the opportunity for a skilled contractor to create a work of art. With the proper fixtures and tools, such a craftsman can enhance the beauty and value of your home.

Dura



1



- ▶ CAST Lighting, founded by masters of this trade, serves Landscape Lighting Installers by providing them with the finest, most advanced and durable fixtures and components on the market today. CAST products combine the beauty of old world craftsmanship with today's technology. You can rest assured that when a contractor installs a CAST Lighting system, the results will be outstanding and trouble-free for years to come.

Value

Why Install Low Voltage Landscape Lighting?

- ▶ **Security** — High voltage floodlights leave dark shadows and unseen areas around a property. A better choice is strategically placed low voltage lights that provide low levels of even illumination.
- ▶ **Safety** — Low voltage lighting is the ideal choice for illuminating walkways and entranceways. This ensures that residents and visitors can safely navigate around the property.
- ▶ **Usability** — Illuminating the private areas of a property allows the evening enjoyment of decks, sitting areas, and recreational spaces.
- ▶ **Beauty** — Low voltage lighting accentuates the shapes and textures of a landscape and its structures. Lighting designers not only paint pictures with light, they create dramatic scenes that give the viewer a dynamic experience of the property.
- ▶ **Economy** — Low voltage lighting consumes about 1/3 the electricity compared to high voltage and is far less expensive to install.

bility

3



Innovation



WHY CHOOSE CAST?

Durability

4



Hand-Crafted Solid Bronze Fixtures with Superior Design

- ▶ When a light fixture is installed outdoors it is subject to the extremes of weather, environmental conditions and physical abuse. Most fixtures fail under these conditions because they are constructed of inferior materials that corrode and are easily damaged.
- ▶ CAST Fixtures are constructed entirely of handmade solid sand-cast bronze. Bronze was selected because it is nearly impervious to corrosion and physical abuse. Aluminum, polyester powder coatings, plastic, and even copper will fail while bronze retains its integrity.
- ▶ Bronze also has a naturally beautiful finish that gradually turns Verdi with age. Or, with a simple treatment, the bronze metallic color can be maintained indefinitely.
- ▶ The sand-cast process used to make CAST lights is centuries old, and skilled artisans hand make each fixture. Using the same methods as their ancestors, these craftsmen take great pride in creating and inspecting each fixture.

Innovation

Corrosion Properties of Metals Used in Lighting Fixtures

Least Subject to Corrosion





Beauty

▶ While the body of each fixture is a work of art, the internal components are products of modern science — stainless steel lamp contacts and hardware, nickel-plated brass sockets, tin coated marine grade wire, crimped and soldered connections, convex lenses — all unique features that ensure reliable operation for years to come.

▶ Of course, CAST lights are not only beautiful themselves, they illuminate beautifully with highly controlled and adjustable beams of lights. This is possible thanks to design innovations that precisely position the lamp for minimum glare and maximum effect.



Value

MORE REASONS TO CHOOSE CAST

Innovation



The CAST System of Low Voltage Landscape Lighting

- ▶ After more than 15 years of installing Lighting projects and training landscape contractors, CAST Lighting perfected the tools and techniques that ensure successful installations.

5



The Basic Requirements for a Successful Installation

For a landscape lighting system to operate optimally over an extended period of time, the following criteria must be met:

- ▶ Each lamp must receive between 10.8 and 12.0 volts to maximize lamp life and light output.
- ▶ Wire connections must be waterproof, secure and protected from corrosion.
- ▶ Wire must be resistant to oxidation and corrosion.
- ▶ The transformer must be resin sealed, circuit breaker protected, capable of extended periods of operation, and have limitless control options.
- ▶ All system data, including fixture and splice locations, lamp wattage, and electrical measurements must be recorded to ensure proper maintenance of the system.

Beauty

Du

Trouble-Free Wire Connections

- ▶ There are several wiring techniques commonly used by lighting installers. CAST-trained contractors use only the CAST Spider Splice™ wiring technique. This involves running equal length wires from each fixture to Spider Splice junction points. These junctions protect connections from corrosion, deliver equal voltage to all fixtures, and facilitate ease of maintenance. They are sealed with a bronze cap and permanently stamped with important system information.

Marine-Grade Wire Ideal for Buried Applications

- ▶ Buried wire is at risk for physical damage during yard work and is subject to corrosion from ground water. CAST addresses these problems with No-Ox™ wire, a durable, tin-coated wire impervious to corrosion. This is the same wire used for saltwater marine applications.

Advanced Voltage Control to Extend Lamp Life

- ▶ In a landscape lighting system, it is the transformer's job to deliver the right voltage (10.8 to 12 volts) to each fixture. This is not an easy task since voltage is lost through the wire and the amount of that loss depends on the number of fixtures and the length and gauge of the wire. Contractors calculate this loss and connect each group of fixtures to the correct voltage tap at the transformer. CAST transformers have many features that give the contractor greater flexibility and control during the installation process. These transformers also have resin-sealed cores with a lifetime guarantee, and incorporate both primary and secondary magnetic circuit breaker protection.

Patented Feature to Ensure Proper Long-Term Maintenance

- ▶ CAST Landscape Lighting Systems are designed to last a lifetime. With that in mind, CAST incorporates a patented system of record keeping that allows contractors to record all vital system information at the job site. The corner stones of this system are the "As-Built Fixture Record Tags™". These acid-etched stainless steel tags are attached to each fixture. Information such as wire run, lamp replacement information, and transformer number are permanently marked on these tags. This information allows contractors to easily service the system year after year without having to rely on design drawings that are easily lost or destroyed.



Value

rability



CAST Lighting is committed to providing the highest level of quality, durability and performance.

Our fixtures, transformers, and systems are designed to deliver a lifetime of superior, trouble-free landscape lighting.

Ask for CAST products by name.



Old world craftsmanship . . . today's technology™

www.cast-lighting.com

© Copyright 2003, CAST Lighting LLC. All rights reserved LSS02

Spider Splice, *No-O's*, and *As-Built Fixture Record Tag* are registered trade-marks of CAST Lighting, LLC