

LED SITE LIGHTING

BENEFITS OF LED LIGHTING

Long life, Reliable and Cost Effective

- 57,000 hours (6.5 years 24/7)
 - 17 years at 9 hrs/day

Durable and Rugged

- Impact resistant acrylic diffuser
- No glass or gas

Energy Efficient

- 70-85% cost savings
- Low Voltage

Environmentally Friendly

- Contributes to LEED certification
- UV resistant
- Mercury free

Safe Operation

- Cool to the touch – child safe



THE FUTURE OF OUTDOOR LIGHTING IS HERE TODAY

FairWeather is incorporating a patented and very unique bright-white light source (*iLight's Plexineon® White Series*) into its existing line of security and architectural bollards and adding a complete new line of extruded aluminum, steel and plastic bollards and pathway lights.

These distinctive patent-pending designs will be cool to the touch (typically a few degrees above room temperature making them child and pedestrian safe), virtually sealed against the outdoor elements of water, bugs and dirt (characteristic problems encountered with high-wattage outdoor site-lighting) and at cost savings that will typically exceed 70% of the operating expense of today's traditional outdoor light sources (such as high-pressure sodium, metal halide, halogen, fluorescent or incandescent).

Keep an eye on FairWeather as it illuminates new pathways to the future of outdoor lighting. This inspired line of CoolTouch™ bollard and pathway LED lighting products may very well revolutionize the entire site-lighting industry. Patents Pending.

“Turn LED Lighted Bollards into information signage and electricity savings of up to 70% and more” – Detachable panels on FairWeather's CoolTouch™ Square B-6-L LED Lighted Panel Bollard (shown at right), house the *iLight* patented *Plexineon®* LED lights that can be quickly and easily changed for venue shifts, adding different *Plexineon®* colors, switching signage panels—and all within a matter of a few minutes. Currently, to our knowledge no other light source in the world can provide this type of flexibility, cost savings and bulb life with all of the other added benefits.

This Product is the Exclusive Property and invention of Leader International Corporation and its commercial/institutional site furniture division, FairWeather Site Furnishings.

Design & Utility PATENTS PENDING
 Leader International Corporation
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All designs shown incorporate the *iLight* patented *Plexineon®* LED light source. *Plexineon* is protected under U.S. Pat. No. 6,592,238 and “*iLight*” and “*Plexineon*” are Registered Trademarks of *iLight* Technologies, Inc., Evanston, Illinois



Cool Touch™ B-6-L LED lighted bollards



(optional custom LED Lighted Signage Panels)



Available with optional power outlet

New LED Lighted Bollards

Light emitting diode (LED) efficiency gains took hold in 2002 allowing LED bulbs to be used for specialty illumination. In the past several years the technology has exploded—moving it from an array of small, single “flash” type applications used in traffic control and barricade lights, pedestrian and hazard signals, automotive lights and message boards—to use as a replacement for many of today's common light applications.

While LED technology has actually been in use since the 1960's, most early uses were limited to small electronic devices. As the technology progressed, additional colors and wavelengths became more available. In the late 1980's the technology advanced again with the use of laser diodes and further refinements. In the 1990's further applications applied LED's and the technology continued its rapid improvement.

Today, LED light sources are taking on many shapes and sizes and are beginning to challenge traditional light sources due to the long bulb life—depending on color—ranging from 57,000-180,000 hours (6.5-20 years 24/365). LEDs are also compact and consume minimal power (operating costs are 70-90% less), resistant to shock and vibration, environmentally friendly (no mercury), produce minimal heat (0-10° above room temperature) and no UV in the light beam.

Security and Decorative Bollards with LED Plexineon®



SB-1-L (6" x 36" Surface Mount shown) A distinctive "landmark" bollard with its square collars and pyramid top, the SB stanchion is also available without collars and in a hexagon configuration with a flat top (LED Plexineon® lights are vertical). We have applied the LED lights in a horizontal 1-2 configuration to match the parallel lines of the collars. Available as a decorative or security bollard; additional parallel lights may be added.

B-3-L (6" x 36" Surface Mount shown) Combining LED Plexineon® Bright White lights with the multiple 1/2" rings and hemisphere top, the B-3-L is the ideal choice for many of today's leading site designers and landscape architects—now even more so as the added LED light source makes this already aesthetically pleasing bollard a superb choice for any area needing more than just a splash of light.

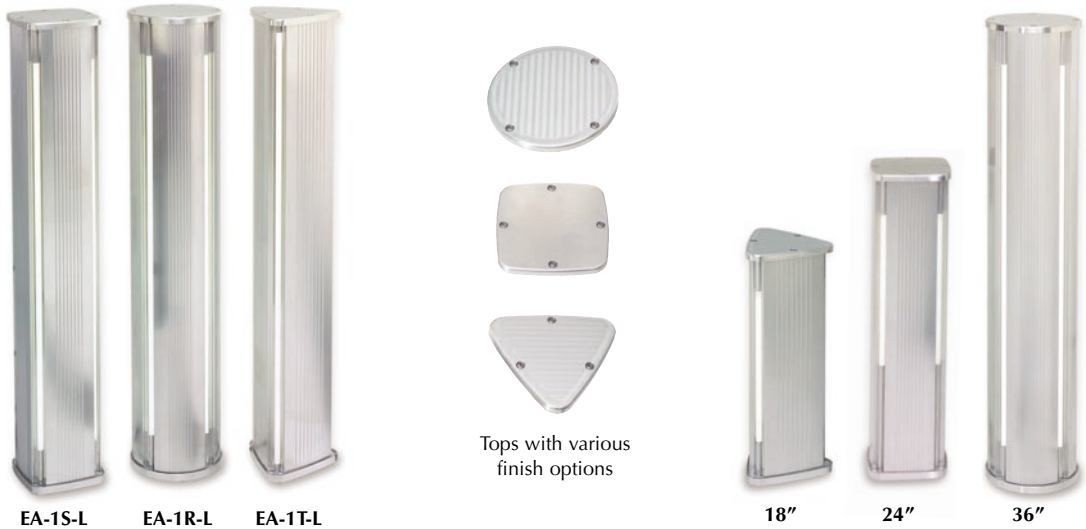
B-4-5C2-L (6" x 36" Surface Mount shown)

B-4-5B2-L (6" x 36" Surface Mount shown)

B-4-5A2-L (6" x 36" Surface Mount - shown on back) One of the most distinguishing in our line of decorative and security bollards, the B-4 series allows the site designer or landscape architect a number of creative options to design the perfect top to meet the demands of different sitescapes. The 6 – 4" Plexineon® LED lights come standard in 6500 Kelvin Bright White. Also available in any combination of seven distinct Plexineon® colors.

B-5-L (6" x 36" Surface Mount shown) The asymmetrical top and collars of this stylish bollard is highlighted by the LED Plexineon® lights matching the asymmetry between the upper collar and bollard top. The elegant presentation of this lighted bollard will complement many of today's modern architectural styles.

Extruded Aluminum Bollards with LED Plexineon®



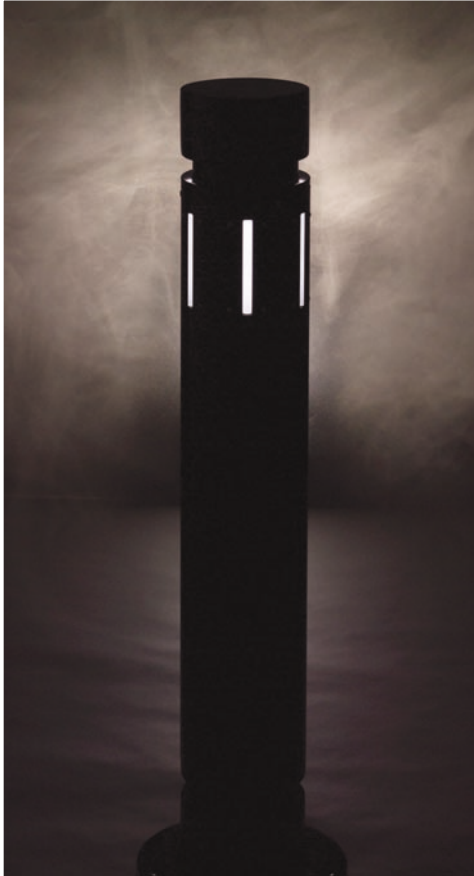
EA-1R-L (7" x 36" Surface Mount shown)

EA-1S-L (6" x 36" Surface Mount shown)

EA-1T-L (7" x 36" Surface Mount shown)

Our newest most distinctive in the LED lighted line of products are the extruded aluminum decorative bollards. The EA series is available in three styles (Round, Square and Triangle), each in three standard heights (18", 24" and 36"). Available in one of two anodized finishes or numerous powder coating colors.

Custom design any bollard height from 12" to 42" in 2" increments and add as much LED Plexineon® light as you desire for your specific application. The LED lights are available from 4" to 36" in length, also in 2" increments. We also offer several machined finish designs on EA-L bollard top caps. These are only available with anodized finishes. The unique design of these extruded aluminum decorative bollards puts unlimited creativity in the hands of the architect/designer in creating the right amount of light and look for any site.



B-4-5A2-L

B-4-5A2-L 6" x 36" LED Lighted Bollard

One of the many B-4 Bollard styles available incorporating the patented iLight LED Plexineon® in Bright White. All of the B-4 line is available in Bright White as well as mixing other Plexineon® colors to match the powder color.

B-1-L 6" x 36" LED Lighted Bollard

The distinctive B-1 Bollard is used both as a decorative stanchion and as a security bollard. This style is perfect for waterfront, harbor or entry installations. The B-1 incorporates the patented iLight LED Plexineon® in Bright White and is also available in many other Plexineon® colors to match various powder colors. In most applications we would recommend alternating the Bright White with other colors (such as Blue or Red).



B-1-L



B-1, 6" LED Lighted Post Top Beacon

Candela, Lumens & Utilization are available in Standard IES Files.

Photometric Testing performed by: Independent Testing Laboratories, Inc. (ITL) Boulder, CO

LED Lighted Post-top Beacons

We modified the design of the B-1 Bollard for use as a post-top beacon. Use for installations atop landmarks, concrete or steel walls or lower-to-ground applications as unique pathway lights. This style is also perfect for docks, waterfront, harbor or entry installations. The B-1 Post-top Beacons incorporate the patented iLight LED Plexineon® in Bright White and is also available in many other Plexineon® colors to match various powder colors. In most applications we would recommend alternating the Bright White with other colors (such as Blue or Red). The B-1 8" comes standard with 3 - 4" and 3 - 6" LED Plexineon® Bright White and the B-1 6" comes standard with 6 - 4" lights.



B-1, 8" LED Lighted Post Top Beacon

Electrical Input standard 120v line (Input range 100 Vac ~ 240 Vac/0.3/A (Low Voltage 24 Volt/20 Watt Transformer). Most applications will come standard with 6 - 4" LED Plexineon® Bright White.