



2008

Liteforms®

Collection

LED Exit Sign

Bringing Form And Function To Light

DUAL LITE

Liteforms® Collection

»»» Bringing Form And Function To Light

A Brighter Solution

A thermoplastic LED exit sign with a difference you can actually see. One look at the Liteforms LX Series LED exit sign's stylish form and bright, even illumination confirms that Dual-Lite has set and maintained the highest standard for LED exit signs.

Visibly Different

Liteforms LED exit signs provide illumination levels far in excess of those required by current UL standards, leaving other exit signs pale by comparison. This same illumination level is maintained more uniformly over the life of the exit sign than any other sign on the market. Brighter, more uniform illumination dramatically increases Liteform's visibility and safety factor under emergency conditions.

Winning Form

Liteforms LX exit sign's low-profile, contoured design brings the added dimension of style to commercial and light industrial construction projects. With smooth, clean lines, Liteforms LED exit signs bring aesthetic appeal to any installation. The style and color are a match to other products in the Liteforms Collection, assuring a family appearance to the entire project.

Saves Installation Time

Lightweight, snap-together construction and labor-saving design features like push-in wiring connectors and snap-in canopy mounting make them the industry's easiest to install. Universal "sign-in-a-box" packaging covers single-face, double-face and wall/ceiling/end-mount applications.

Saves Energy

Liteforms LX Series AC or emergency exit signs consume 90% less energy on average than traditional incandescent or fluorescent lamped models. The LED strip itself consumes less than 1 watt in red or green letter models. See Energy/Maintenance Cost Comparison Chart, below.

Saves Maintenance

The premium-grade LEDs used in the Liteforms LX Series exit signs have a 20+ year life expectancy, virtually eliminating relamping expenses associated with incandescent or fluorescent models. See Energy/Maintenance Cost Comparison Chart, below.

	Lamp Type		
	Incandescent	Fluorescent	Liteforms LED
Power Consumption per sign ⁽¹⁾	24-40 W	18-30 W	3 W ⁽²⁾
Annual Operating Cost ⁽³⁾	\$21.02-\$35.00	\$15.77-\$26.28	\$2.63
Typical Lamp Life	6 months	14 months	20+ years
Annual Relamping Cost ⁽⁴⁾	\$19.95	\$12.47	\$0.00

Total Annual Liteforms LED savings range = \$25.61 - \$52.32

Total 20-year Liteforms LED savings range = \$722.40 - \$1,046.40

For comparison purposes only. Actual results may vary.

⁽¹⁾Includes transformer power requirements for fluorescent and LED models

⁽²⁾Maximum wattage for red or green AC models at 120 or 277VAC

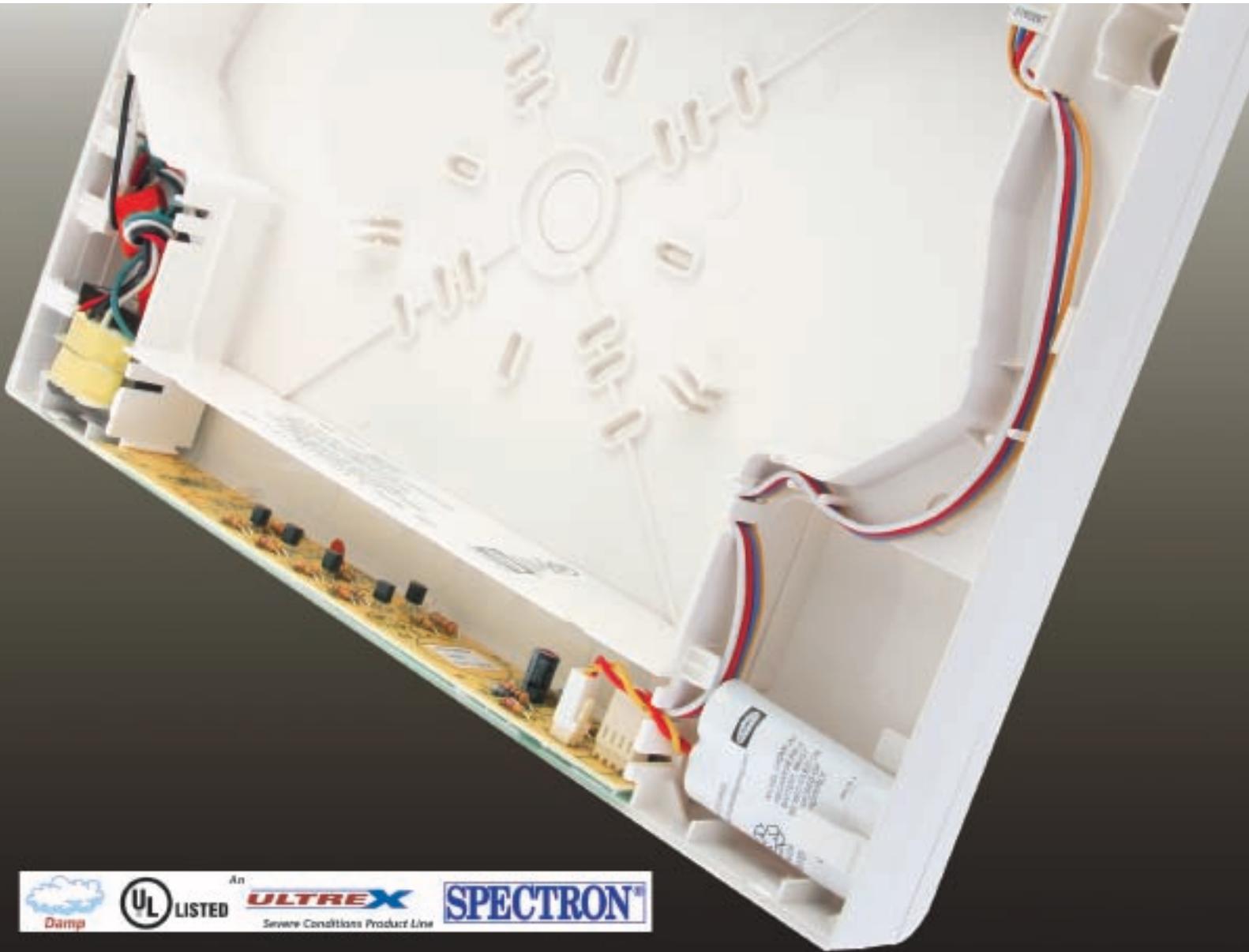
⁽³⁾Based on \$0.10/KWH utility cost

⁽⁴⁾Based on typical lamp costs plus \$8.00 labor per relamping (15 min./sign @\$32.00 hr.)

Assurance Of Quality

Dual-Lite's superior design, component selection and assembly process provide a level of quality and value far superior to other brands, virtually eliminating "call backs." This dedication to quality is reflected in the Liteforms LX Series exit sign warranty period:

Product Warranty	Unit Warranty (Years)	Battery Warranty	
		Full (Years)	Pro-Rata (Years)
AC Only Models	5	-	-
Emergency Models	5	1	9
Emergency Spectron® Models	5	2	8



- UL Listed to Standard 924 (Emergency Lighting)
- Listed for use in damp locations
- Solid-state charger
- Nickel-Cadmium battery pack
- Spectron® self-test/self-diagnostic circuitry option
- White or black thermoplastic housing
- Red or green letters

▶▶▶ Liteforms® Collection

LX Series LED Exit Sign

Style And Performance

Combining smooth, curved surfaces with designed-in reliability, the Liteforms Collection LX Series LED exit sign is the perfect choice for commercial, light-industrial and institutional applications. The thermoplastic housing makes it light weight and easy to install. The LED light engine, combined with a diffuser silk-screened with a frequency-matched coating provides bright, even illumination at all times. Whether AC only or battery back-up emergency models, all components are contained within the compact, contoured housing, eliminating the need for unsightly “piggy-back” component enclosures.

The Liteforms Collection LX Series LED exit sign’s compact size, 3/4” full-stroke, 6” high letters and brightly lit EXIT legend allow installation over doorways or in other tight spaces without compromising visibility. Long-life LEDs provide low operating cost and zero maintenance while maintaining uniform illumination during the entire life of the sign. The UV-stable, colorfast thermoplastic housing will not yellow with age and always looks great. A choice of white or black housings complements most interior design schemes.

Emergency battery back-up models incorporate a sealed, maintenance-free rechargeable nickel-cadmium battery pack providing a two-hour run time. This additional 30-minute run time allows extra time to vacate the building during an emergency. This is especially useful in hospitals, nursing homes and rehabilitation facilities housing semi- or non-ambulatory patients.

Snap-in chevron arrows provide easy job site “path of egress” directional programming. Internal “push-in” wire connectors speed the installation process. The universal KO pattern allows mounting to 3-1/2”, 4” octagon or 4” square electrical boxes. For ceiling or end-mount installations, the snap-in canopy kit makes mounting the sign a snap. An optional pendant mount kit allows variable sign mounting heights to clear any obstacles that might otherwise obstruct visibility.

On the shelf or in the truck, the “complete sign-in-a-box” packaging provides universal single/double face and end/wall/ceiling mounting configurations. The “AC lockout” feature allows battery-equipped models to be installed prior to the branch circuit being energized without extended battery discharge, and the “low voltage disconnect” circuit prevents battery damage due to deep discharge.



The Liteforms Collection incorporates exit signs and emergency lighting units designed with a “family” appearance to complement the interior décor, the project and each other.



▶▶▶ COMPONENT DETAILS

Aesthetically Pleasing

Compact, decorative thermoplastic housing
 Style and color matches other Liteforms® Collection products
 LED light engine provides consistently bright, even EXIT legend illumination

Reliable

Five-year warranty on electronics
 Long-life LEDs (20+ years)
 Sealed maintenance-free Nickel-Cadmium battery
 Battery warranty (standard): 1-year full, 9-years pro-rata
 Battery warranty (Spectron® models): 2-years full, 8-years pro-rata
 "AC Power On" LED indicator light
 Test switch for emergency units
 Low voltage battery disconnect

Energy Efficient

LED light engine for low energy consumption
 Complies with current Energy Star requirements⁽¹⁾
 Meets EPACT 2005 requirements, ensuring low operating cost over the life of the product



Versatile

Suitable for use in damp locations
 Complete "sign-in-a-box" packaging

- Universal single/double face
- Universal wall/ceiling/end-mounting

 Red or green letters
 White or black housing
 Spectron® Self-test/self-diagnostic circuitry option



Easy Installation

Snap-together construction
 Snap-in directional chevron arrows
 Push-in wiring connectors
 Universal junction box KO pattern
 AC lockout feature

Compliances

UL Listed to Standard 924 (Emergency Lighting)
 NFPA 101 (Life Safety Code) compliant
 NFPA 70 (National Electrical Code) compliant
 EPACT 2005 compliant
 Energy Star compliant⁽¹⁾



EPAct 2005

(1) Effective April 30, 2008, the Environmental Protection Agency has mandated that exit sign manufacturers must discontinue use of the Energy Star name. Effective May 1, 2008, the EPA will no longer maintain and/or display an exit sign web page on its Energy Star web site. Dual-Lite will maintain its current power consumption ratings on its exit signs; these values will be displayed on the Dual-Lite web site, and listed on all exit sign technical data sheets.

Liteforms® Collection

LX Series LED Exit Sign

ALL MODELS

- UV-stable thermoplastic housing
- Compact, low-profile design
- Easy to install
- Long-life LED lamps
- Bright, even illumination
- Red or green letters
- Universal single/double face
- White or black models offered
- Push-in wiring connectors
- Universal wall/ceiling/end mount
- Universal snap-in, chevron arrows
- Damp location listed
- 120/277VAC, 60 Hz. operation
- UL 924 Listed

EMERGENCY MODELS

- Solid-state charger with low-voltage disconnect
- Maintenance-free Nickel-Cadmium battery
- 2-hour emergency operation
- Test switch and AC-On light
- Available with Spectron® self-test/self-diagnostic circuitry
- Temperature range: 10°C to 40 (50°F to 104°)

OPTIONS

- I Spectron® self-test/self-diagnostic circuitry⁽¹⁾
- 2C 2-circuit operation⁽²⁾⁽⁵⁾
- FAP Fire alarm panel interface⁽³⁾⁽⁵⁾⁽⁶⁾
- FM Flasher module ⁽¹⁾⁽⁶⁾
- AF Audible/Flasher module⁽¹⁾⁽⁶⁾
- DC Remote DC operation⁽²⁾⁽⁴⁾⁽⁵⁾
- 24K 220-240VAC, 60 Hz. operation
- SA "SALIDA" stencil face

- (1) For use with emergency models only.
- (2) For use with AC models only.
- (3) Operates with 24-volt AC or DC fire alarm panels.
- (4) For emergency illumination of sign from remote 6-24 VDC power sources.
- (5) -DC option may not be specified with -2C or -FAP options.
- (6) -AF, -FM and -FAP options may not be specified together.

ACCESSORIES

- FX2-E Emergency operation conversion module (red)
- FX-E Emergency operation conversion module (green)
- PMLXW 12 1/2" Pendant mounting kit (white)
- PMLXB 12 1/2" Pendant mounting kit (black)
- WGLX Wire guard (Wall mount)
- WG-MLT Wire guard (Wall mount)
- WGLXC Wire guard (Ceiling mount)
- WGLXE Wire guard (End mount)
- VRS3 Vandal-resistant shield



WHITE HOUSING
RED LETTERS



WHITE HOUSING
GREEN LETTERS



BLACK HOUSING
RED LETTERS



BLACK HOUSING
GREEN LETTERS

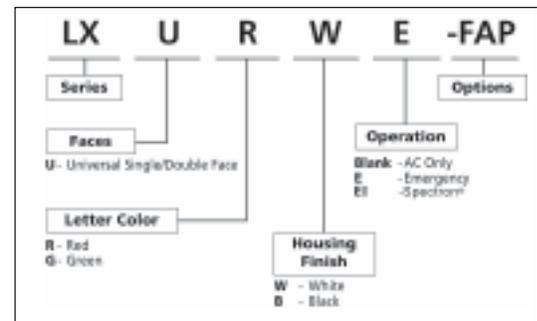
POWER CONSUMPTION

	120VAC	277VAC
Red AC Only Models	2.6 W	2.6 W
Green AC Only Models	2.1 W	2.1 W
Red Emergency Models	3.8 W	3.8 W
Green Emergency Models	3.5 W	3.5 W

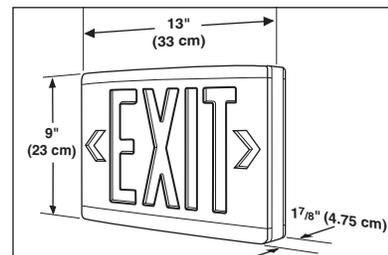
Power factor, average: 0.8 (lagging)

*Wattage figures include LED lamps, transformer and electronics power requirements

PRODUCT SELECTOR



DIMENSIONS



DUAL LITE

Hubbell Lighting, Inc. Life Safety Products • www.dual-lite.com

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