



# LED Life Safety Products

Featuring Emergency Lighting with MR16 LED Lamps  
Higher Performance + Energy Savings + Longer Life



# ▶▶▶▶▶ LEADER in Emergency Lighting

Dual-Lite has earned a reputation as a leader in life safety products because of its tradition of offering superior quality, exceptional performance and innovative design. Dual-Lite's heritage began by being the first to manufacture exit signs that could operate in both AC and emergency DC modes of operation. Among other notable achievements, Dual-Lite was the first to incorporate maintenance free batteries into emergency units, Dual-Lite introduced the industry's first self-diagnostic series of emergency lights and exits signs and recently Dual-Lite introduced a patent pending family of decorative outdoor LED emergency luminaires. **Building upon that legacy, Dual-Lite proudly introduces its next innovation...**

## LED MR16 Lamp Option

By taking advantage of the latest in LED technology and specifically designing the lamp for emergency lighting applications, products utilizing Dual-Lite's exclusive LED MR16 design enjoy **the following key features:**



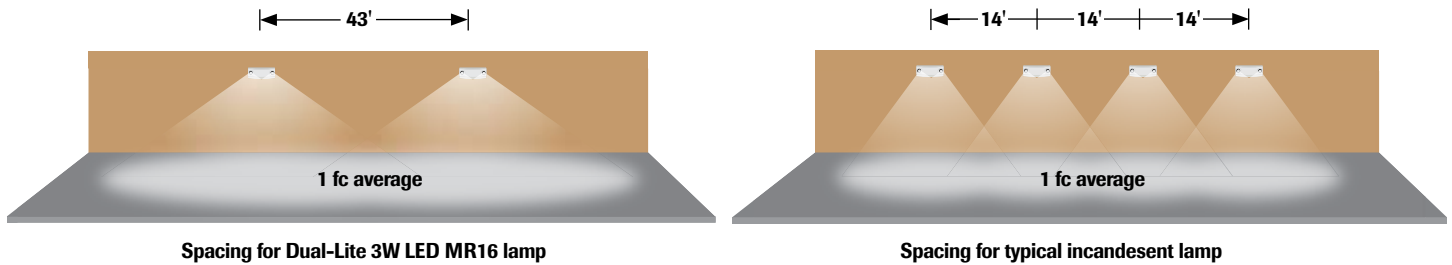
- ▶ **Improved Performance** – By substantially increasing lumen output and optimizing the light pattern, fewer fixtures are required to provide code required illumination levels. Spacing between fixtures is significantly increased, yet the emergency unit delivers bright, uniform illumination!
- ▶ **Energy Savings** – Whether using incandescent, halogen or LED technology each emergency unit consumes the same amount of energy to function in normal operating conditions, but using fewer fixtures in total to meet equivalent lighting requirements results in greater energy savings.
- ▶ **Longer Lamp Life** – Dual-Lite's LED MR16 lamps have a rated lamp life over 50,000 hours – more than 100 times the rated life of standard incandescent lamps! At over 50,000 hours of rated life, the cost of the replacement lamps as well as the labor cost associated with replacing the lamps is eliminated.
- ▶ **Increased Flexibility** – A typical emergency lighting unit fitted with two incandescent or halogen lamps consumes 10 watts of battery power, whereas two of Dual-Lite's LED MR16 lamps uses only 6 watts. The emergency unit's remaining capacity may be used for extended run time or to power additional LED remote lamp heads for even greater project savings – **your choice!**





# Performance Comparison >>>>>

As illustrated below, Dual-Lite's LZ series utilizing the optional 3 watt LED MR16 lamp provides 3 times the spacing of typical incandescent lamps.



Meets Life Safety Code minimum illuminance of .1fc and average illuminance of 1fc; assumes mounting height of 7.5', ceiling height of 9', reflectances of 80/50/20 on a 3' path. Spacing to meet 1fc minimum is approximately 17' for Dual-Lite MR16 LED and 12' for a typical incandescent lamp.

# Lower Costs >>>>>

Fewer fixtures equate to lower total equipment costs and less labor required for installation. One way to show the reduced overall project costs is to compare the cost per foot to meet the same lighting requirements for a small project (the larger the project the greater opportunity for savings).

Fixture	Spacing	Fixture Cost	Installation Cost*	Total Cost
Incandescent	14'	\$40 ea.	\$3.77/ft	\$6.63/ft
<b>LED</b>	<b>44'</b>	<b>\$90 ea.</b>	<b>\$1.26/ft</b>	<b>\$3.31/ft</b>

\*Source: RS Means Electrical Cost Data

# Better Efficiency >>>>>

Because Dual-Lite's LED MR16 lamp requires less energy to function, the emergency unit's remaining capacity may then be used for extended run time or to power additional LED remote lamp heads for even greater savings.

Model	Lamp	Capacity	Runtime	Remote Watts	# of Remotes 5w Halogen	# of Remotes 3w LED
LZ15	5w Halogen	15 watts	90 minutes	5 watts	1	1
<b>LZ15-03L</b>	<b>3w LED</b>	<b>15 watts</b>	<b>90 minutes</b>	<b>9 watts</b>	<b>1</b>	<b>3</b>

Dual-Lite now offers integrated LED based MR-16 lamps into these well known products.



**LT**  
Thermoplastic Combo

**LZ**  
Thermoplastic Unit

**HCX**  
Thermoplastic Combo



**LZR**  
Decorative Remote



**CPR**  
Indoor (Single and Twin)



**OCR**  
Outdoor (Single and Twin)



## Ordering Information >>>>>

To place an order for the new LED based MR16, please refer the the specification sheets and ordering information provided at [www.dual-lite.com](http://www.dual-lite.com)



Hubbell Lighting, Inc.

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