

# LED Retrofit Kits for EXIT signage



## Convert high consumption incandescent and fluorescent lamps to energy efficient LED lamps.

Converting existing exit signage from incandescent or fluorescent lamps to LED (light emitting diodes) lamps drastically reduces operating and maintenance costs for building owners and property managers. As part of energy efficiency programs, some Canadian electric utilities are also actively promoting conversion to LED with incentive and rebate programs for installers and building owners/managers.

## Features

Lumacell offers four retrofit kit options; all based on the long-life **AllnGaP** LED technology:

- Superstrip Series
- Mini-Wedge LMW Model
- Mini-Wedge LMWXD Model
- LED Lamp

Here are some of the benefits of using LED lamps in exit signs:

- Exceptional energy efficiency – reduces energy consumption by up to 90%
- Extremely long life – 10 to 25 years
- Important reduction in maintenance and energy costs
- Average payback is less than two years (see page 6)
- Retrofit kits are easy to install
- Improved visibility and reliability: **AllnGaP** LED technology



## Typical Specification

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Project/Location		Date
Contractor		Prepared by
LUMACELL Model		



# LED RETROFIT KITS

## SUPERSTRIP Series (LMR model)

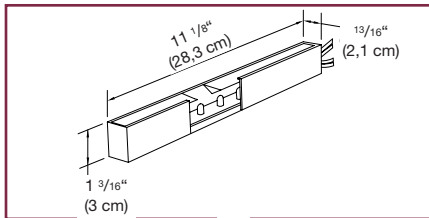


- Quick and easy to install
- Long-life, energy-efficient red AllnGap LED technology
- Module features two independent circuits – one for AC input; one for DC input
- Universal AC input: 120/277/347Vac; universal two-wire DC input: 6 to 24Vdc
- Power consumption of 1.1W per module
- 10 year limited warranty

### Power Consumption

Model	AC Specs		DC Specs	
<b>LMR</b>	120/277/347Vac	1.1W	6 to 24Vdc	1.3W

### Dimensions



### Ordering Information

Serie	Voltage	Options
<b>LMR</b> = hardwire retro-fit kit	<b>UNIV</b> = 120/277/347Vac, 6/12/24Vdc	<b>Blank</b> = 11.0" (28cm) long
	<b>UNIV36</b> = 120/277/347Vac., 36Vdc	<b>*-9.5</b> = 9.5 " (24 cm) long
	<b>UNIV48</b> = 120/277/347Vac, 48Vdc	
	<b>UNIV120</b> = 120/347Vac, 120Vdc	
	<b>120VACDC2</b> = 120Vac,120Vdc, 2 wires	

**EXAMPLE: LMRUNIV**

## MINI-WEDGE Series (LMW model)

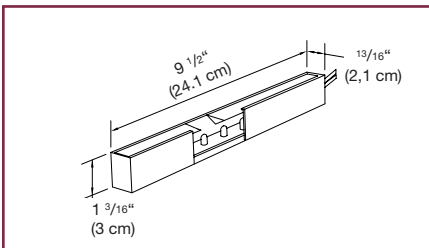


- Easiest to install in its class
- Compact size makes it ideal for virtually all exit signs
- Can be retrofitted directly on fluorescent ballast
- Long-life, energy-efficient red AllnGap LED technology
- Available with AC adaptor for all type of lamp sockets
- 10 year limited warranty

### Power Consumption

Model	AC Specs		DC Specs	
<b>LMW</b>	120Vac; 86Vac step down from 347Vac	1.7W	N/A	N/A

### Dimensions



### Ordering Information

Series	Voltage	Base
<b>LMW</b> = for std applications	<b>120</b> = 120Vac	<b>C</b> = candelabra
	<b>120HW</b> = 120Vac, hardwire	<b>I</b> = intermediate
	<b>240HW</b> = 240Vac, hardwire	<b>M</b> = medium
	<b>277HW</b> = 277Vac, hardwire	<b>B</b> = bayonet
	<b>347HW</b> = 347Vac, hardwire	<b>F</b> = G23 compact fluorescent
		<b>CIMB</b> = complete set of bases (exclude "F" base)
		<b>CIMBHQ</b> = Hydro-Québec set for "Efficient Products Program".

**EXAMPLE: LMW120C**

## MINI-WEDGE Series (LMWXD model)

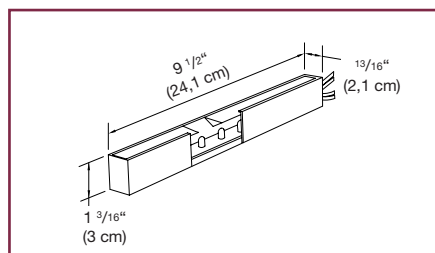


- Easiest to install in its class
- Compact size makes it ideal for virtually all exit signs
- Can be retrofitted directly on fluorescent ballast
- Suitable for all AC line applications including exit signs equipped with in-line diodes
- Long-life, energy-efficient **AllnGap** LED technology

### Power Consumption

Model	AC Specs		DC Specs	
<b>LMWXD</b>	120Vac; 120Vac with in-line diodes	2.8 W	N/A	N/A

### Dimensions



### Ordering Information

Serie	Voltage	Base
<b>LMWXD</b> = with or without in-line diodes	<b>120</b> = 120Vac	<b>C</b> = candelabra <b>I</b> = intermediate <b>M</b> = medium <b>B</b> = bayonet <b>CIMB</b> = complete set of bases

**EXAMPLE: LMWXD120-C**

## LED LAMPS

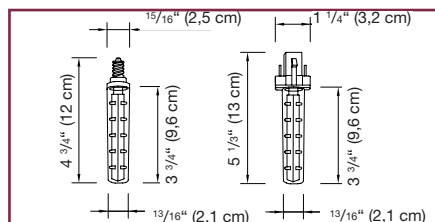


- Quick and easy to install
- Available with wide range of lamp bases for quick lamp to lamp replacement
- Long-life, energy-efficient **AllnGap** LED technology
- 120Vac or 120Vac with in-line diode

### Power Consumption

Model	AC Specs		DC Specs	
<b>L11W</b>	120Vac	0.90 W	N/A	N/A
<b>L3</b>	120Vac	2.6 W	120Vdc	2.6 W

### Dimensions



### Ordering Information

Series	Base
<b>L11W</b> = standard version	<b>C</b> = candelabra
<b>L3</b> = with or without in-line diodes (2.5W), high brightness	<b>I</b> = intermediate
	<b>M</b> = medium
	<b>B</b> = bayonet
	<b>F</b> = G23 compact fluorescent

**EXAMPLE: L1-1W-C**

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LUMACELL Model		



## LED RETROFIT KITS

### How much can I save?

The following is an example of the savings you can generate by simply installing an LED retrofit kit in an existing incandescent Exit sign.

<b>The Retrofit Kits Cost is :</b>	<b>\$70,00</b>
Installation cost (per unit) for a retrofit kit is (Labour):	\$5.00
Wattage rating per incandescent lamp in existing fixture:	15W
Number of incandescent lamps per fixture:	2
Wattage rating of Lumacell LMRUNIV retrofit kit:	1.7W
My existing incandescent exit lamps last for:	4 Months
My replacement labour cost is:	\$25.00/Hour
Estimate lamp replacement time per exit:	20 Minutes
The current material cost for each exit sign lamp is:	\$1.00/Lamp
My current energy cost is:	\$0.060/\$ Per kWh
<b>The PAYBACK FOR YOUR INSTALLATION IS:</b>	<b>1.06 Years</b>
<b>THE ANNUAL RETURN ON INVESTMENT IS:</b>	<b>94,50 %</b>
<b>THE ANNUAL SAVING IS:</b>	<b>\$70.87</b>

For more information, please do not hesitate to contact us.