

MAGNILUMEN PLUS[™] LX

16", 2', 3', 4' and 5' LED Magnetic Retrofit Kits

Magnilumen Plus[™] LX is designed to retrofit fluorescent fixtures Controlled by a Lutron[®] controls system. Kits are easy to install and fit into almost any existing linear fluorescent fixture with onboard magnets.



Upgrade existing Lutron[®] dimming fluorescent

- Lutron[®] compatibility between installed control system and existing fixture
- EcoSystem[®] digital control - dims down to 1%
- Keep existing fixtures, controls, sensors & programming capability



University/Schools



Commercial Offices



Healthcare



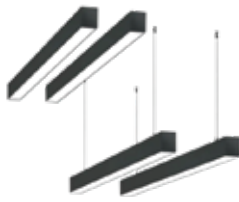
Government

LUMENS

Wattage	Frosted Lens 150 lm/W	Clear Lens 170 lm/W	No Lens 180 lm/W
20W	3,000	3,400	3,600
30W	4,500	5,100	5,400
40W	6,000	6,800	7,200
50W	7,500	8,500	9,000
60W	9,000	10,200	10,800

WATTAGE	Wattage fixed drivers: 20W, 30W, 40W 50W = (2) x 25W 60W = (2) x 30W
COLOR TEMPS	27K, 30K, 35K, 40K, 50K, 65K Optional: CSK 35/40/50K MagniBlend * Specialty Colors - Contact Factory
EFFICACY	150 lm/W with Frosted Lens 170 lm/W with Clear Lens 180 lm/W with No Lens
VOLTAGE INPUT	120/277V
DRIVER OUT VOLTAGE	27-42VDC
CRI	80+ (standard); 90+ (special order)
DIMMING	LUTRON [®] 3-Wire Dimming; Ecosystem [®] Dimming
AMBIENT TEMP	-20 to 50C; -40 to 122F
SURGE PROTECTION	2KV
RATED	IP20 for damp location
WARRANTY	7 year
LED LIFESPAN	100,000 hours Standard Products

Most Common Fixture Types



Direct/Indirect Pendants



Recessed/Slot



1x4, 2x2, 2x4 Parabolic/
Diffused/Architectural Troffers



Fluorescent Fixtures



Direct/Indirect



Cove & Ambient Lighting

MAGNILUMEN PLUS™ LX KIT



- Magnetic LED bars
 - Driver
 - Color Options: MagniBlend
 - 24" harness
 - Screws
- (27K, 30K, 35K, 40K, 50K, 65K
Optional: CSK 35/40/50K)



LUMEN OUTPUT

- 150 lm/W- Frosted Lens
- 170 lm/W- Clear Lens
- 180 lm/W- with No Lens



CSK

- Toolless color temperature selectable option on harness via switch.
- 35K, 40K, 50K options available.



INSTALLATION MADE EASIER

- Onboard magnets on LED bars designed for quick and easy installation.
- Mounting brackets for screw mounting (where applicable).

PART BUILDER

MRK	# of Bars	Length of Bar	Kit Wattage	Color Temp	PLUS-LX	Lutron®	Options
	1 2 3 4	16 = 16 in 2 = 2 ft (21.06 in) 3 = 3 ft (30.91 in) 4 = 4 ft (42.91 in) 5 = 5 ft (58 in)	20 = 20W Driver 30 = 30W Driver 40 = 40W Driver 50 = (2) x 25W 60 = (2) x 30W Max wattage per bar by length 16" - 10W Max 2 ft. - 15W Max 3 ft. - 22W Max 4 ft. - 30W Max 5 ft. - 38W Max	27K = 2700K 30K = 3000K 35K = 3500K 40K = 4000K 50K = 5000K 65K = 6500K CSK = 35/40/50K BL = MAGNIBLEND *Specialty Colors - Contact Factory		LUTRON-E1 = Hi-Lume® 1% ECOSYSTEM LUTRON = Includes Lutron® Hi-Lume® 1% ECOSYSTEM® 3 Wire Driver	90CRI = HIGH CRI CL = CLEAR LENS EM = EMERGENCY BATTERY BACKUP

DIMENSIONS

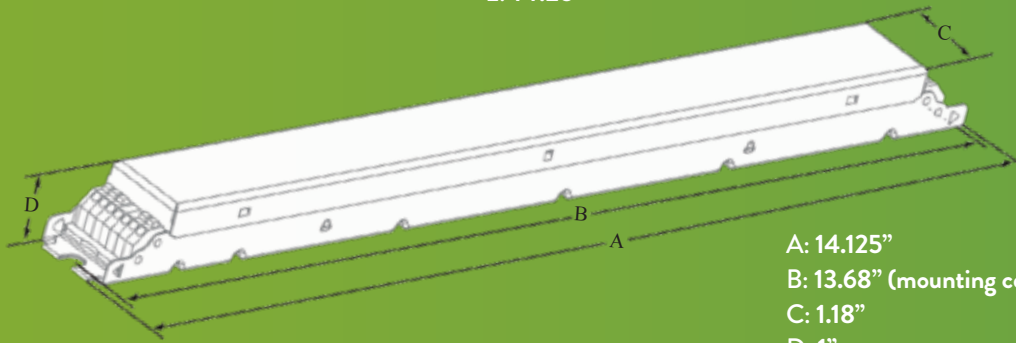


DRIVER DIMENSIONS

W: 1.18"



L: 14.25



A: 14.125"
 B: 13.68" (mounting center)
 C: 1.18"
 D: 1"

OPTIONAL MOUNTING HARDWARE

MAGNETS FOR DIRECTIONAL USE

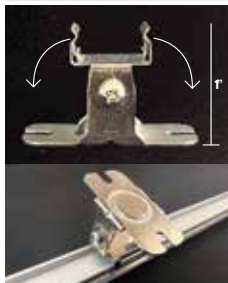
45 Degree Angle Magnet

PART NUMBER:
MAG-NO-HOOK-45DEG



Magnet with Hook (adjustable 0-180 degrees)

PART NUMBER:
MAG-HOOK-ADJUSTABLE



MOUNTING MAGNETS AND HARDWARE

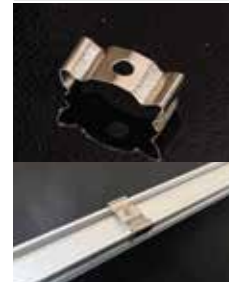
Magnet with Hook

PART NUMBER:
MAG-HOOK



Clip with No Magnet, No Hook

PART NUMBER:
NO-MAG-NO-HOOK



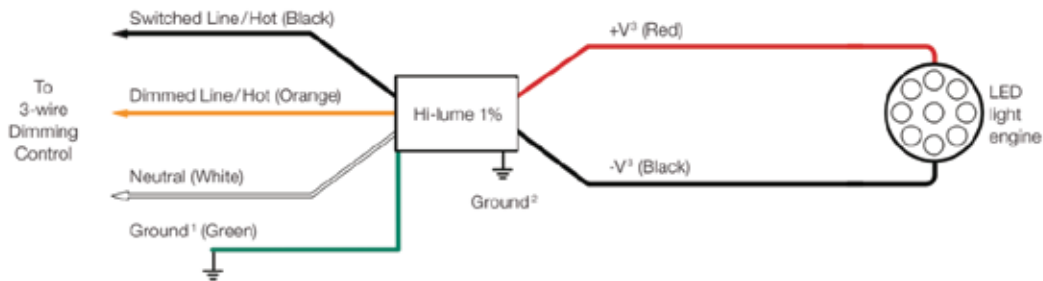
No Hook Magnet

PART NUMBER:
MAG-NO-HOOK

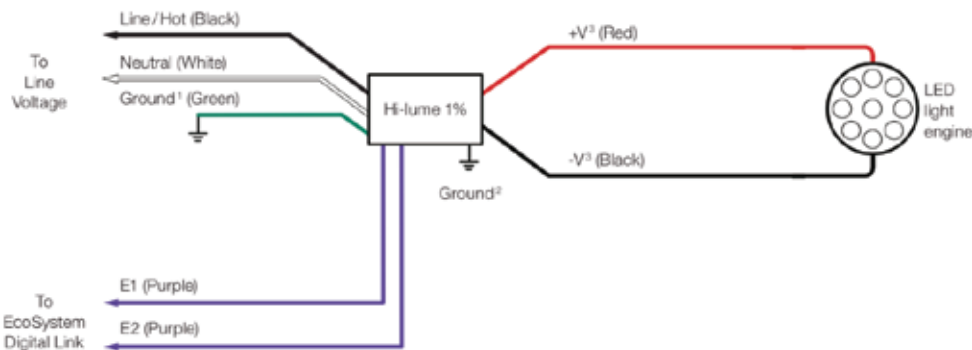


All Magnilumen Plus™ LX LED Bars come with onboard magnets and self-drilling screws standard. Additional mounting magnets and hardware available.

WIRING DIAGRAM - LUTRON®



WIRING DIAGRAM - LUTRON® E1



Note: Colors shown correspond to terminal blocks on driver.

OPTIONS – HARNESSES

A 2-Way harness is standard with kits but unique situations might require a special harness. 1, 3, and 4-Way harness options are available.

PLUG & PLAY HARNESSES & EXTENSIONS

1-WAY HARNESS – Connects 1 LED bar to 1 driver

PART NUMBER: HARNESS-1-WAY-12IN

Connects 1 LED bar to 1 driver.



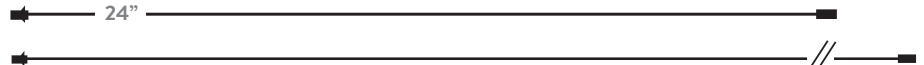
PART NUMBER: HARNESS-1-WAY-16IN

Connects 1 LED bar to 1 driver.



PART NUMBER: HARNESS-1-WAY-24IN

Connects 1 LED bar to 1 driver.



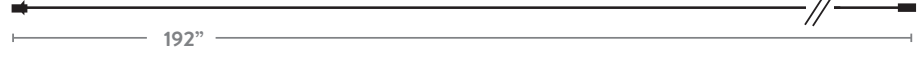
PART NUMBER: HARNESS-1-WAY-8FT

Connects 1 LED bar to 1 driver, with an 8 ft extension on driver end



PART NUMBER: HARNESS-1-WAY-16FT

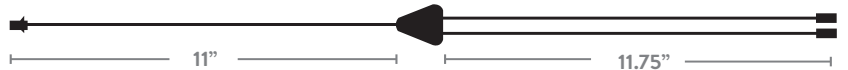
Connects 1 LED bar to 1 driver, with a 16 ft extension on driver end



2-WAY HARNESS (STANDARD) – Connects 2 LED bars to 1 driver

PART NUMBER: HARNESS-2-WAY

Lead from driver connection to splitter: 11.00"; 2 leads to bars: each 11.75"



PART NUMBER: HARNESS-2-WAY-OPT

Lead from driver connection to splitter: 11.00"; 2 leads to bars: each 11.75"

3-WAY HARNESS – Connects 3 LED bars to 1 driver

PART NUMBER: HARNESS-3-WAY

Lead from driver connection to splitter: 11.00"; 3 leads to bars: each 11.75"



PART NUMBER: HARNESS-3-WAY-EXT (2 short, 1 long)

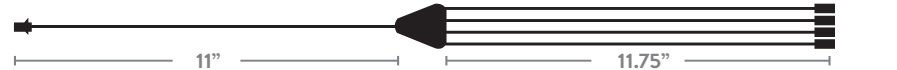
Has 6 ft extension on driver end. Lead from driver connection to splitter: 11.00"; 2 leads to bars: each 11.75"; 1 lead to bars: 72.00"



4-WAY HARNESS – Connects 4 LED bars to 1 driver

PART NUMBER: HARNESS-4-WAY

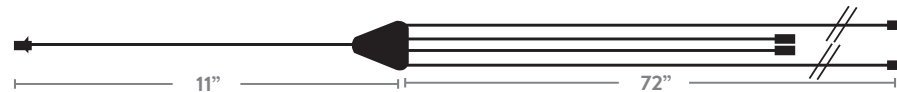
Lead from driver connection to splitter: 11.00"; 4 leads to bars: each 11.75"



PART NUMBER: HARNESS-4-WAY-2-WAY-EXT

(2 long, 2 short)

2 leads have 6 ft extension. Lead from driver connection to splitter: 11.00"; 2 leads to bars: each 11.75"; 2 leads to bars: 72.00"



CSK SWITCH – PLUG & PLAY HARNESSES

Color Selectable Switch with Magnetic Back - 35/40/50K



PART NUMBER: HARNESS-2-WAY-CSK-SWITCH

Lead from driver connection to CSK switch: 11.00";
2 leads to bars: each 11.75"



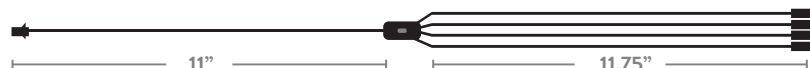
PART NUMBER: HARNESS-2-WAY-4-WAY-CSK-SWITCH

Lead from driver connection to CSK switch: 11.00";
2 leads each to 4 bars: each 11.75"



PART NUMBER: HARNESS-4-WAY-CSK-SWITCH

Lead from driver connection to CSK switch: 11.00";
4 leads to bars: each 11.75"





Introducing Magnilumen Plus™ Kits for Lutron® EcoSystem® Fixtures – Seamless Upgrades Made Easy!



We're excited to introduce an exciting extension to the **Magnilumen Plus™ family of products**, the ultimate LED retrofit solution designed specifically for **Lutron® EcoSystem® equipped fixtures**. As you may know, Lutron® Electronics discontinued the production of fluorescent ballasts in 2023, making now the perfect time to upgrade your existing system to an efficient and reliable solution. Magnilumen Plus™ Kits offer a seamless upgrade with minimal disruption, enhancing your lighting performance while ensuring future-proof technology.

Why Magnilumen Plus™ Products?

- ✔ **Plug-and-Play Compatibility** - Designed to integrate effortlessly with Lutron® EcoSystem® controls.
- ✔ **Energy Savings & Sustainability** - Reduce energy consumption without compromising quality.
- ✔ **Superior Light Quality** - Enjoy enhanced brightness, uniformity, and longevity.
- ✔ **Quick & Easy Installation** - Minimize downtime with a hassle-free retrofit process.



How to Identify a Lutron® EcoSystem® equipped Control System

In a **Lutron® EcoSystem® wiring setup**, an orange wire, also referred to as the dimmed hot lead, plays a key role in controlling the intensity of the connected lights.

FUNCTION OF THE ORANGE WIRE:

- **Dimmed Hot Lead:** The orange wire carries the dimmed hot signal from the Lutron® EcoSystem® control device to the light fixtures. It delivers a voltage that can vary depending on the dimming level set by the control system.
- **Communication:** The orange wire helps transmit the dimming control signal, enabling fixtures to respond accordingly by dimming up or down depending on user preferences or automated control via Lutron®'s EcoSystem® network.

IDENTIFYING THE ORANGE WIRE:

- **Color and Marking:** The wire itself is usually orange and may be clearly marked to distinguish it from other control wiring (such as the neutral, line, or ground wires).
- **Connection Point:** It is typically connected to the dimming ballast or driver inside the light fixture, enabling the fixture to respond to the dimming commands sent from the EcoSystem® controller.

IMPORTANT NOTE:

If you're upgrading to LED solutions or retrofitting existing fixtures, ensuring that the orange wire is correctly integrated with your Lutron® EcoSystem® system is crucial for achieving proper dimming functionality. LED Drivers without this will not provide the dimming functionality desired.

The Magnilumen Plus™ Solution

We offer **16", 2', 3', 4' and 5' kits** to suit a variety of installation needs, providing flexible options for your space. Specialty Colors - Easy integration of Retrofit kits. Enhancing Contrast and Visual Acuity - Blue, Green, Red, and Yellow. With Magnilumen Plus™, upgrading your Lutron® controlled lighting system has never been easier. Let us help you transform your space with smarter, more efficient lighting.



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