



MAGNILUMEN PLUS⁺

HIGH OUTPUT

Industrial Lighting Retrofit Solutions



ZLEDLighting's Magnilumen Plus retrofits have upgraded commercial warehouse lighting in businesses throughout the United States. Whether you need to upgrade lighting in a small business shop, large warehouse, or distribution center, we can help!





MAGNILUMEN PLUS™

HIGH OUTPUT

Upgrade an Environment: Industrial LED Solutions for Modern Workspaces

High Output retrofit kits use the latest high-efficiency and powerful illumination LEDs to provide a cost-saving alternative to the traditional fluorescent T12, T8, and T5HO lamps.

Magnilumen Plus High Output delivers these great features:

Superior Brightness: Magnilumen Plus High Output industrial LED retrofit kit improves lighting in large areas, illuminating large spaces with clarity, visibility, enhancing safety and overall productivity.

Energy Efficiency: High Output retrofit kits leverage advanced LED technology to dramatically lower energy consumption compared to traditional lighting systems, resulting in significant cost savings on electricity bills.

Longevity: Engineered for durability, High Output LED retrofit kit offers an impressive lifespan, reducing maintenance costs and minimizing downtime from frequent bulb replacements.

Compatibility: Retrofit kits are designed for seamless integration with existing fixtures, making installation quick and hassle-free while maintaining the integrity of your current lighting infrastructure.

Controls Integration: Illuminate spaces with confidence using High-output industrial LED retrofit kits, which seamlessly integrates with advanced lighting controls. This enables optimized energy usage, enhance ambiance, and easily tailor lighting levels to meet application specific needs.

For more information, go to magnilumenplus.com/high-output-kits



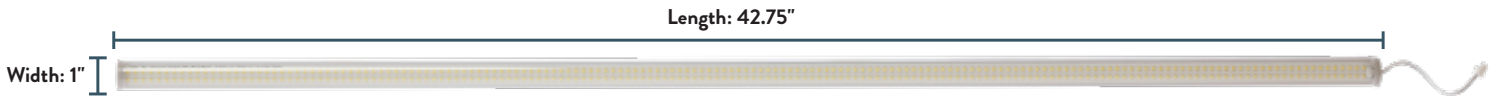
MAGNILUMEN PLUS HIGH OUTPUT LED BARS FOR HIGH BAY RETROFIT KITS

EASY-TO-INSTALL MAGNETIC LED BARS AND RETROFIT KITS FOR TRADITIONAL FLUORESCENT LAMP HIGH BAYS

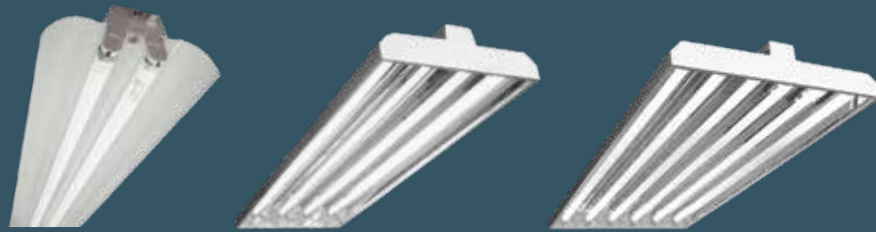


Designed to exceed expectations, Magnilumen™ Plus High Output illuminates spaces with remarkable clarity and consistency, whether in industrial facilities or commercial complexes. Committed to sustainability, Magnilumen™ Plus products merge high luminosity with energy-saving technologies, ensuring environmental responsibility and cost-effectiveness.

Up to 10,000 Lumens Per LED Bar!



Upgrade T12, T8, and T5HO 4, 6, and 8 lamp high bays with Magnilumen™ Plus High Output kits.



MAGNILUMEN PLUS HIGH OUTPUT LED BARS

SPECIFICATIONS	
WATTAGE	60W
COLOR TEMPS	40K, 50K
VOLTAGE INPUT	100-277VAC
DRIVER INPUT	27-42VDC
EFFICACY	No Lens: 173Lm/w Clear Lens: 165Lm/w Frosted Lens: 155Lm/w
LUMENS	Up to 10,000 per bar
CRI	80+
DIMMING	0-10V
AMBIENT TEMP	-20 to 50C; -4 to 122F
SURGE PROTECTION	2KV
RATED	IP20
LED LIFESPAN (L70)	50,000 hours
WARRANTY	5 years

Pre-installed magnetic bars use the latest high-efficiency and high-brightness LEDs to provide a cost-saving alternative to the traditional fluorescent T12, T8, and T5HO lamps.

- **Easy to Install:** Pre-installed onboard magnets slide out for screw mounting.
- **Up to 10,000 lumens per bar.**
- **Up to 50-75% reduction in power used.**
- **It is the easiest and best alternative to fluorescent tubes on the market.**
- **Frosted lens optional.**

MAGNILUMEN PLUS HIGH OUTPUT LED BARS FOR HIGH BAY RETROFIT KITS



Retrofit kits are ideal for use in linear high bays, troffers, vapor tights, and other linear fixtures where high illumination is needed in applications like warehouses, distribution centers, and other industrial facilities.

- Complete LED retrofit kit includes LED bars, driver, wiring harness, and screws.
- 60W per bar and multiple color temperature choices (40K and 50K).
- Input voltage 100-277V.
- LED bars and drivers include magnets for easy installation and positioning.
- 0-10V dimming
- 5-year warranty
- DLC

MAGNILUMEN PLUS HIGH OUTPUT KITS AND PART NUMBER

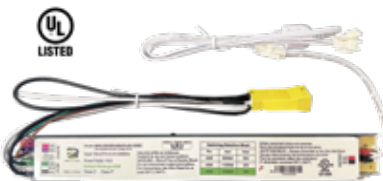
PART NUMBER	# OF BARS	# OF DRIVER(S)	WATTAGE	COLOR TEMP	CLEAR LENS LUMENS
MRK1230-40K-PLUS-HO	1	1 @ 30W	32W	40K	5,280
MRK1230-50K-PLUS-HO	1	1 @ 30W	32W	50K	5,280
MRK2260-40K-PLUS-HO	2	1 @ 60W	62W	40K	10,230
MRK2260-50K-PLUS-HO	2	1 @ 60W	62W	50K	10,230
MRK3295-40K-PLUS-HO	3	1 @ 100W	95W	40K	15,675
MRK3295-50K-PLUS-HO	3	1 @ 100W	95W	50K	15,675
MRK42120-40K-PLUS-HO	4	2 @ 60W	124W	40K	20,460
MRK42120-50K-PLUS-HO	4	2 @ 60W	124W	50K	20,460
MRK1460-40K-PLUS-HO	1	1 @ 60W	62W	40K	10,230
MRK1460-50K-PLUS-HO	1	1 @ 60W	62W	50K	10,230
MRK24100-40K-PLUS-HO	2	1 @ 100W	100W	40K	16,500
MRK24100-50K-PLUS-HO	2	1 @ 100W	100W	50K	16,500
MRK24120-40K-PLUS-HO	2	2 @ 60W	124W	40K	20,460
MRK24120-50K-PLUS-HO	2	2 @ 60W	124W	50K	20,460
MRK34180-40K-PLUS-HO	3	3 @ 60W	186W	40K	30,690
MRK34180-50K-PLUS-HO	3	3 @ 60W	186W	50K	30,690
MRK44240-40K-PLUS-HO	4	4 @ 60W	248W	40K	40,920
MRK44240-50K-PLUS-HO	4	4 @ 60W	248W	50K	40,920

Retail Floor Display (Holds up to 12 RP Kits)
Part #: ZL-DISPLAY-HO



Other combination and lumen packages available.

AO DRIVERS WITH 12V AUXILIARY OUTPUT FOR CONTROLS



Wattage Selector Switch

FEATURES

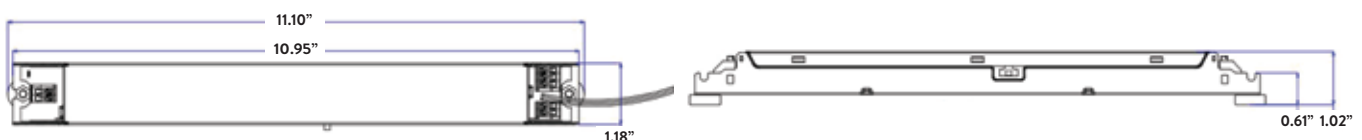
20/30/40W Selectable

- Built-in 0-10V adjustable power LED Driver
- 12V 0.1A Auxiliary source
- Output current 470mA; 660mA; 880mA
- Selectable Wattage: 20W, 30W, 40W
- For luminaires of protection Class P

40/50/60W Selectable

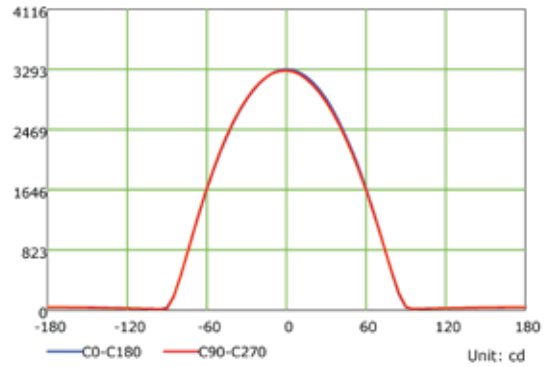
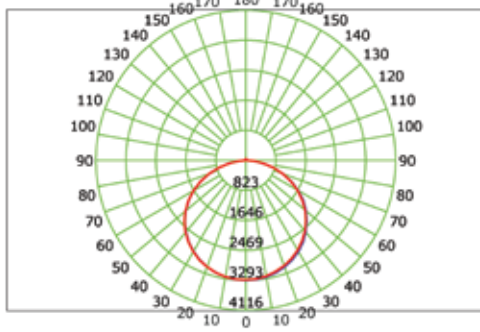
- Built-in 0-10V adjustable power LED Driver
- 12V 0.1A Auxiliary source
- Output current 900mA; 1100mA; 1250mA
- Selectable Wattage: 40W, 50W, 60W
- For luminaires of protection Class P

Part Number	Default Wattage	Input Voltage	Power Factor	Efficiency	THD	Output Voltage	Output Current
MRK-DRIVER-40W-2WH-AO-PLUS	40W	120-277VAC	≥0.9	>85%	<20%	27-42VDC	470mA @ 20W; 660mA @ 30W; 880mA @ 40W
MRK-DRIVER-60W-2WH-AO-PLUS	60W	120-277VAC	≥0.9	>85%	<20%	27-42VDC	900mA @ 40W; 1100mA @ 50W; 1250mA @ 60W



MAGNILUMEN PLUS HIGH OUTPUT LED BARS FOR HIGH BAY RETROFIT KITS

LUMINOUS INTENSITY DISTRIBUTION CURVE



DRIVERS

50-60W







100W



The perfect retrofit solution for fluorescent high bay industrial fixtures

Average Installation Time of 20 Minutes.

Mounting Height	HIGH BAY 20-25 FT.	HIGH BAY 20-25 FT.	HIGH BAY 30-40 FT.	HIGH BAY 30-40 FT.
				
Typical Replacement	4 lamp T8	6 lamp T8	6 lamp T5HO	8 lamp T5HO
Original Lamp Lumens	11,800 lumens	17,700 lumens	29,400 lumens	39,200 lumens
Original Delivered Lumens	10,030 lumens	15,045 lumens	24,990 lumens	33,320 lumens
Wattage	128W	192W	324W	432W
Recommended Replacement Lumens	10,000 Lumens @ 62W	20,000 Lumens @ 128W	30,000 Lumens @ 186W	40,000 Lumens @ 248W
Recommended Magnilumen™ Plus HO Kits	MRK1460-50K-PLUS-HO 1 - 4 ft bar 1 - 60W driver	MRK24120-50K-PLUS-HO 2 - 4 ft bar 2 - 60W driver	MRK34180-50K-PLUS-HO 3 - 4 ft bar 3 - 60W driver	MRK44240-50K-PLUS-HO 4 - 4 ft bar 4 - 60W driver
Wattage Reduction	53%	32%	37%	41%

OPTIONAL LUMEN SETTINGS - Based on No Lens

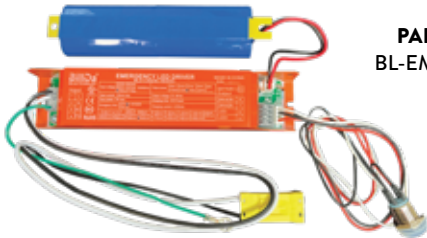
Dip Switch Settings	10,000L	20,000L	30,000L	40,000L
62 Watts	10,230	20460	30690	40920
60 Watts	9900	19800	29700	39600
57 Watts	9405	18810	28215	37620
55 Watts	9075	18150	27225	36300
50 Watts	8250	16500	24750	33000
45 Watts	7425	14850	22275	29700
40 Watts	6600	13200	19800	26400

IES Files are Available for Layouts

MAGNILUMEN PLUS HIGH OUTPUT LED BARS FOR HIGH BAY RETROFIT KITS

OPTIONS

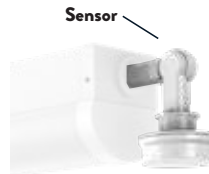
EMERGENCY BACK-UP LED DRIVER



PART NUMBER:
BL-EMRG-LED-15-1H

20W Emergency Driver
PART NUMBER:
BL-EMRG-LED-20-1H

SENSOR



PART NUMBER:
ZL-SENSOR-HB-MV

Power Supply



PART NUMBER:
MUSP-12V-03-5W

Remote Control



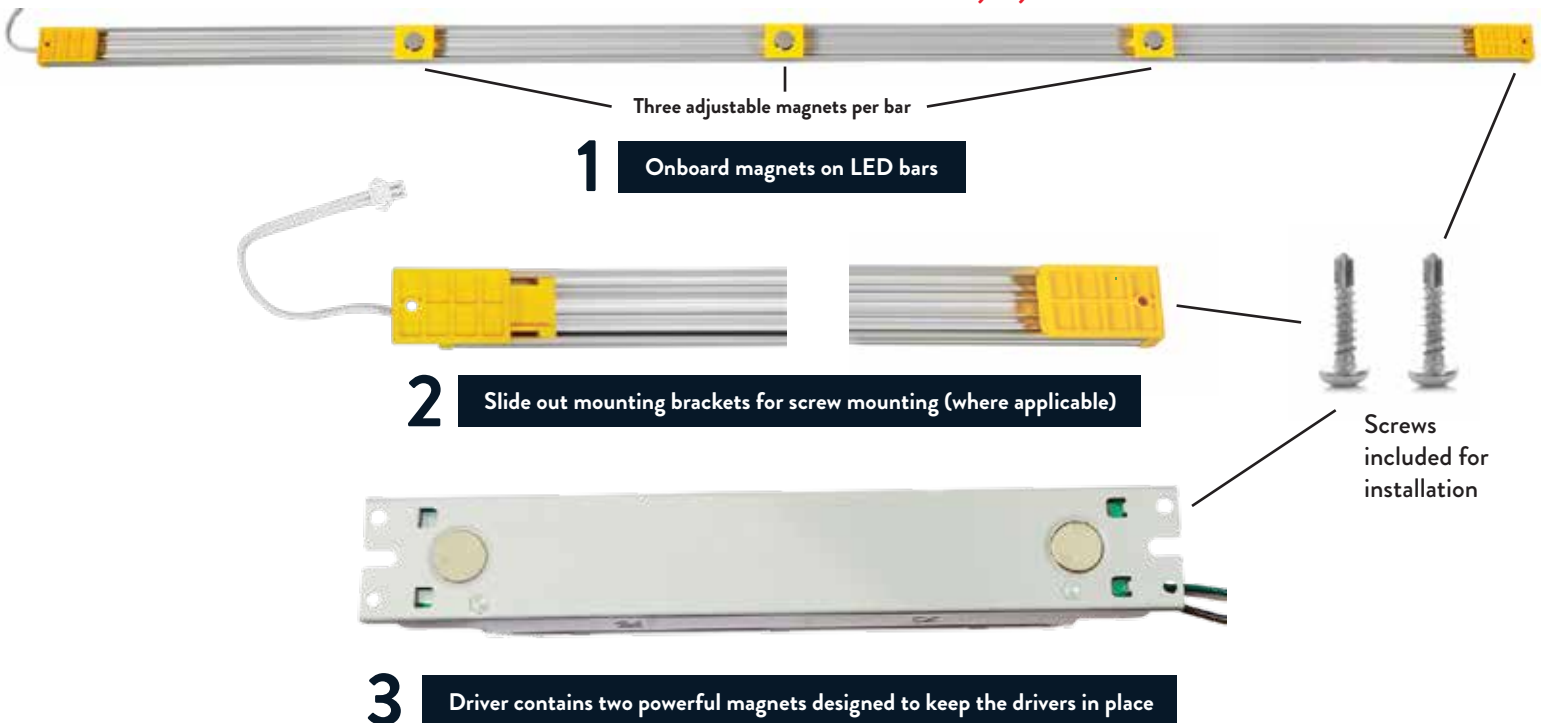
PART NUMBER:
ZL-HAISEN-REMOTE-HD05R

BENEFITS AND FEATURES

Magnilumen™ Plus products are designed for speed and to make installation easy.

- Bars have three onboard adjustable magnets for customize installation based on application needs.
- Bars have a slide-out mounting bracket at each end of the bar with pre-drilled holes for screw mounting where applicable.
- Drivers contain two powerful magnets designed to keep the driver in place. There are also holes for screws if needed.

INSTALLATION – EASY AS 1, 2, 3



TRADITIONAL  **MAGNILUMEN PLUS⁺**
GREAT FOR LOW BAY FIXTURES

	 MAGNILUMEN PLUS⁺ LOW BAY 12-15 FT. 	 MAGNILUMEN PLUS⁺ LOW BAY 15-18 FT. 
Mounting Height		
Typical Replacement	2 lamp 4 foot T8 fluorescent	2 lamp 8 foot T8 fluorescent
Original Lamp Lumens	5,900 lumens	11,000 lumens
Original Delivered Lumens	5,015 lumens	9,350 lumens
Original Wattage	64W	128W
Recommended Replacement Lumens	9,000 Lumens @ 50W	10,800 Lumens @ 60W
Recommended Magnilumen Plus Kits	MRK2450-50K-PLUS 2 - 4 ft bars 1 - 50W driver	MRK2460-50K-PLUS 2 - 4 ft bars 1 - 60W driver

FLUORESCENT

MAGNILUMEN PLUS