

**\*Please read safety instructions before starting. Always have a qualified electrician install kits.**

**STEP 1:** Turn off power and remove the lamps and ballast cover. Disconnect the incoming power from the ballast, trim the tombstone wires, and remove the ballast if desired or required by code. Fluorescent lamp holders (Tombstones) may remain in place.



**STEP 2:** Place the Magnilumen Plus magnetic driver into the fixtures, and ground driver. Where required, driver and bars may be permanently affixed to the fixture with self-tapping screws provided.



**STEP 3:** Apply the retrofit sticker.



**STEP 4:** Connect the new driver to the incoming power.



**STEP 5:** Select the wattage on the driver DIP Switch. See detailed instruction on reverse side of sheet for how to select and change your wattage. Default wattage is set as per kit part number.



**STEP 6:** Select the color temperature on the magnetized switch on harness (Color Selectable versions only). See color kelvin temperature suggestion chart in kit.



**OPTIONS:** 35K, 40K, 50K (retail packs only)

**STEP 7:** Magnets are built-in for easy installation. Magnet holders also slide out. To permanently adhere to the fixture use self-tapping screws provided. When required by code or is fixture is not constructed from steel.



**STEP 8:** Place the magnetized LED bars into the fixture evenly and align with existing lamp sockets/tombstones. Use self-tapping screws where required. LED Pre-Wired bars "Plug and Play" connection whips should face the same direction that the driver harness is coming out of the ballast cover for connection.



**STEP 9:** Replace the ballast cover and connect the wire harness so it is accessible through the end of ballast cover. Make sure all harness wires are not in contact with sharp metal edges.





MAGNILUMEN PLUS<sup>+</sup>

**STEP 10:** Connect the plug and play harness to the Pre-Wired LED bars.



**STEP 11:** Turn on the power to test the newly retrofitted fixture.



**STEP 12:** Installation is complete.



### INSTALLATION – EASY AS 1, 2, 3

Three adjustable magnets per bar

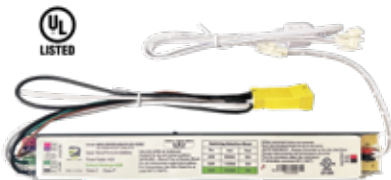
**1** Onboard magnets on LED bars

**2** Slide out mounting brackets for screw mounting (where applicable)

Screws included for installation

**3** Driver contains two powerful magnets designed to keep the drivers in place

### AO DRIVERS WITH 12V AUXILIARY OUTPUT FOR CONTROLS



Wattage Selector Switch

#### FEATURES

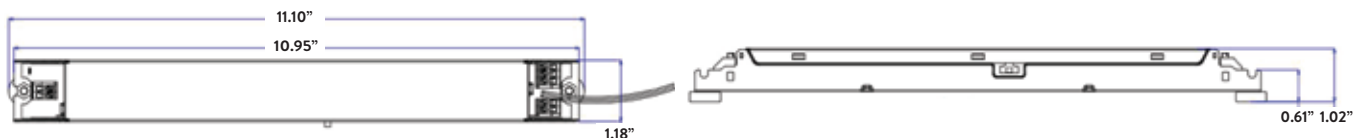
##### 20/30/40W Selectable





- 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



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	<b>10,000 Lumens @ 62W</b>	<b>20,000 Lumens @ 128W</b>	<b>30,000 Lumens @ 186W</b>	<b>40,000 Lumens @ 248W</b>
Recommended Magnilumen™ Plus HO Kits	<b>MRK1460-50K-PLUS-HO</b> 1 - 4 ft bar 1 - 60W driver	<b>MRK24120-50K-PLUS-HO</b> 2 - 4 ft bar 2 - 60W driver	<b>MRK34180-50K-PLUS-HO</b> 3 - 4 ft bar 3 - 60W driver	<b>MRK44240-50K-PLUS-HO</b> 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