



UNIVERSAL LIGHT BAR KIT

PRODUCT
OVERVIEW



SCAN OR
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FEATURES

- The Universal Light Bar Kit is designed for cost effective and energy efficient LED linear retrofit applications. It Can be used to seamlessly retrofit most existing fluorescent T8,T12 and T5 lamp fixtures without the need to reuse the existing sockets or lamp ballasts.
- The Universal Light Bar Kit is lightweight and built for durability, featuring a plastic housing and a frosted polycarbonate lens.
- ULB is available in 1 to 4 light bar kit options with 2', 3' and 4' lengths; lumen outputs range from 1800lm to 6500lm with field lumen selectable drivers. Standard 80CRI, 0-10V dimming (dims to 10%) and additional control system compatibility options available.
- Magnetic backing aid in securing and aligning light bars on existing housing. Self-tapping Tek screws secure drivers and bars to surface. Quick connectors and included wiring harnesses enable fast and seamless installation.
- High quality LED and energy efficient driver provides supreme service life. ULB is rated to deliver L70 performance >100,00hrs. Performance levels exceed 160 LPW.
- Rated for ambient temperature between -4°F to 122°F (-20°C to 50°C). Suitable for enclosed and damp applications.
- Standard 5-year warranty/ Optional 10 year available.

DIGITAL NAVIGATION

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SUITABLE APPLICATIONS

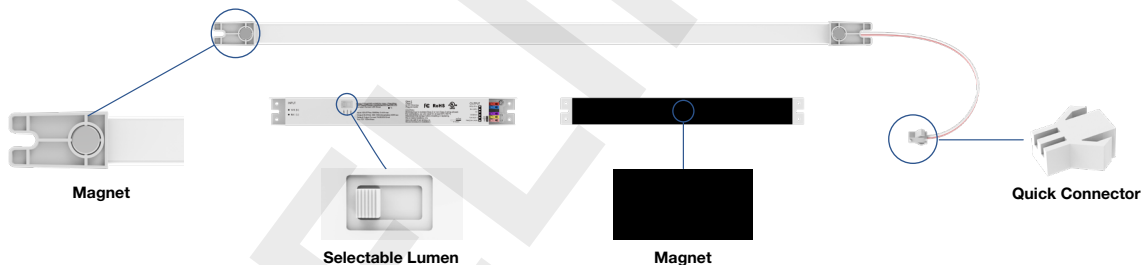
- Education
- Healthcare
- Offices
- Grocery
- Retail
- Storage Facility
- Residential
- Stairwell

CERTIFICATIONS



FOCUS FEATURE

Lumen Selectable



SPECIFICATIONS

CONSTRUCTION

Durable plastic housing with frosted polycarbonate lens. Integrated magnets on back of light bars and drivers provide secure alignment, while included self-tapping tek screws lock components firmly in place for a stable, long-lasting Installation and Operation.

ELECTRICAL

Calculated L70 > 100,000 hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25°C ambient. Power Factor > 0.90. THD < 20%. Standard 120-277 Vac 0-10V dimmable (10%-100%). Optional emergency battery backups available to meet critical life safety lighting requirements.

INSTALLATION

Installs into most existing fluorescent fixtures with T8, T12, or T5/T5HO lamps. Light bars fit between existing sockets with no removal required. Magnetic backing allows easy positioning of bars and drivers, with Tek screws included for secure mounting. Quick-connect wiring and a pre-configured harness ensure fast, efficient installation.

THERMAL

Standard ambient temperature range -4°F to 122°F (-30°C to 50°C).

CONTROLS

Bi Level Diming Control Sensor available.

CERTIFICATIONS

TAA Compliant. ETL Listed to US and Canadian safety standards. Suitable for damp locations. Title 24 Compliant with sensor option; see local ordinance for qualification information.

WARRANTY

5 Year Warranty Standard; 10 Year Warranty Optional (Terms and Conditions apply).



UNIVERSAL LIGHT BAR KIT

ORDERING GUIDE

PART #

Example: ULB4-40L-U-40-L4

SERIES	LUMENS	DRIVER	CCT	LIGHT BAR QTY	CONTROLS OPTIONS	WARRANTY
ULB2 ^{1,2} Universal Light Bar Kit 2ft	20L 2,000 lm	U 120-277V	40 4000K	L1 One Bar L2 Two Bars L3 Three Bars L4 Four Bars	BASIC MWS Bi-level Dimming Microwave Sensor	BLANK 5 Year 10YR 10 Year
ULB3 ² Universal Light Bar Kit 3 ft	30L 3,000 lm					
ULB4 Universal Light Bar Kit 4 ft	40L 4,000 lm					

ACCESSORIES (SHIP WITH)	
BLANK	None
8EMINVERTER	8W Emergency Inverter - Title 20 Compliant
24EMINVERTER	24W Emergency Inverter - Title 20 Compliant
TAPETESTACC	Adhesive Field Fixture Mount Test Switch
CEILTESTACC	Remote Round Ceiling Mount Test Switch
WALLPLATE	Single Gang Jbox Emergency Face Plate and Indicator Light Button
MS021R	Microwave Sensor (Field Installation)
MR010	Microwave Sensor Remote Controller

FOOTNOTES

¹ L1 No Lumen selectable options on 2' version (ULB2 20L).

² Contact factory for lead-time of 3ft bars (kit of 1, 2, 3, and 4) and 2ft bars (kit of 3 and 4).



QUICK SHIP ITEMS

PRODUCT	DESCRIPTION
ULB2-20L-U-40-L2	2' Light Bar Kit, 2,000 Nominal Lumens per Bar, 120-277V Driver, 4000K, 2 Bar Kit
ULB2-20L-U-40-L4	2' Light Bar Kit, 2,000 Nominal Lumens per Bar, 120-277V Driver, 4000K, 4 Bar Kit
ULB3-30L-U-40-L2	3' Light Bar Kit, 3,000 Nominal Lumens per Bar, 120-277V Driver, 4000K, 2 Bar Kit
ULB3-30L-U-40-L4	3' Light Bar Kit, 3,000 Nominal Lumens per Bar, 120-277V Driver, 4000K, 4 Bar Kit
ULB4-40L-U-40-L2	4' Light Bar Kit, 4,000 Nominal Lumens per Bar, 120-277V Driver, 4000K, 2 Bar Kit
ULB4-40L-U-40-L4	4' Light Bar Kit, 4,000 Nominal Lumens per Bar, 120-277V Driver, 4000K, 4 Bar Kit

SHIP WITH ACCESSORIES	
BLANK	None
8EMINVERTER	8W Emergency Inverter - Title 20 Compliant
24EMINVERTER	24W Emergency Inverter - Title 20 Compliant
TAPETESTACC	Adhesive Field Fixture Mount Test Switch
CEILTESTACC	Remote Round Ceiling Mount Test Switch
WALLPLATE	Single Gang Jbox Emergency Face Plate and Indicator Light Button
MS021R	Microwave Sensor (Field Installation)
MR010	Microwave Sensor Remote Controller
*Ship with field installed options	



UNIVERSAL LIGHT BAR KIT

LED SYSTEMS INFO

LED SYSTEMS INFO Part #	Nominal Light Bar Length	Light Bar Quantity	4000K CCT (Bare Light Bar)		4000K CCT (Inside Fixture)*		Wattage
			Lumens	Efficacy (lm/W)	Lumens	Efficacy (lm/W)	
ULB2-20L-U-40-L1	2FT	1	1,800	164			11
ULB2-20L-U-40-L2	2FT	2	2,300 / 2,900 / 3,600	164 / 161 / 164	1751 / 2252 / 2734	125 / 125 / 125	14 / 18 / 22
ULB2-20L-U-40-L3	2FT	3	2,900 / 4,100 / 5,400	161 / 164 / 164	2264 / 3145 / 4056	126 / 126 / 126	18 / 25 / 33
ULB2-20L-U-40-L4	2FT	4	5,200 / 5,900 / 6,500	163 / 164 / 163	4090 / 4601 / 5062	128 / 128 / 128	32 / 36 / 40
ULB3-30L-U-40-L1	3FT	1	1,800 / 2,300 / 2,600	164 / 164 / 158			11 / 14 / 16
ULB3-30L-U-40-L2	3FT	2	2,900 / 4,100 / 5,400	161 / 164 / 164	2365 / 3285 / 4240	131 / 131 / 131	18 / 25 / 32
ULB3-30L-U-40-L3	3FT	3	5,200 / 5,900 / 6,500	163 / 164 / 163	4218 / 4745 / 5149	132 / 132 / 132	32 / 36 / 39
ULB3-30L-U-40-L4	3FT	4	5,200 / 5,900 / 6,500	163 / 164 / 163	4230 / 4759 / 5127	132 / 132 / 132	32 / 36 / 39
ULB4-40L-U-40-L1	4FT	1	2,300 / 2,900 / 3,600	164 / 161 / 164			32 / 36 / 39
ULB4-40L-U-40-L2	4FT	2	5,200 / 5,900 / 6,500	163 / 164 / 163	4173 / 4694 / 5144	130 / 130 / 130	32 / 36 / 39
ULB4-40L-U-40-L3	4FT	3	5,200 / 5,900 / 6,500	163 / 164 / 163	4214 / 4741 / 5136	132 / 132 / 132	32 / 36 / 39
ULB4-40L-U-40-L4	4FT	4	5,200 / 5,900 / 6,500	163 / 164 / 163	4218 / 4745 / 5102	132 / 132 / 132	32 / 36 / 39

*Tested in 2x2 and 2x4 traditional troffers

LOGISTIC INFORMATION

LOGISTIC INFO		Master Carton		Pallet		
Part #	Carton Qty	Carton Dimensions	Carton Weight (lbs)	Carton/Pallet	Dimensions (LxWxH)	Pallet Weight (lbs)
ULB2-20L-U-40-L1	24	22-3/16" x 12" x 12-7/16"	22.6	42	47.2"x39.4"x95.5"	989
ULB2-20L-U-40-L2	24	22-3/16" x 12" x 12-7/16"	26.6	42	47.2"x39.4"x95.5"	1158
ULB2-20L-U-40-L3	24	22-3/16" x 18-5/16" x 12-7/16"	34.5	28	47.2"x39.4"x95.5"	1007
ULB2-20L-U-40-L4	24	22-3/16" x 18-5/16" x 12-7/16"	36.7	28	47.2"x39.4"x95.5"	1068
ULB3-30L-U-40-L1	24	34-5/16" x 12" x 12-7/16"	27.1	28	47.2"x39.4"x95.5"	800
ULB3-30L-U-40-L2	24	34-5/16" x 12" x 12-7/16"	32.8	28	47.2"x39.4"x95.5"	957
ULB3-30L-U-40-L3	24	34-5/16" x 18-5/16" x 12-7/16"	43.5	14	47.2"x39.4"x95.5"	649
ULB3-30L-U-40-L4	24	34-5/16" x 18-5/16" x 12-7/16"	45.8	14	47.2"x39.4"x95.5"	681
ULB4-40L-U-40-L1	12	45-11/16" x 8-5/16" x 9-7/16"	22.5	36	47.2"x39.4"x94.5"	850
ULB4-40L-U-40-L2	12	45-11/16" x 8-5/16" x 9-7/16"	26.4	36	47.2"x39.4"x94.5"	990
ULB4-40L-U-40-L3	12	45-11/16" x 12-7/16" x 9-7/16"	26.6	27	47.2"x39.4"x94.5"	758
ULB4-40L-U-40-L4	12	45-11/16" x 12-7/16" x 9-7/16"	31.2	27	47.2"x39.4"x94.5"	881

CONTROLS OPTIONS

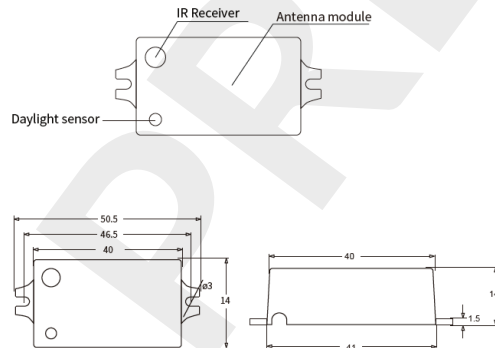
BASIC

MWS

- 5.8GHz occupancy sensing microwave motion sensor build in 2.4GHz RF module
- Grouping and synchronize function for different lights
- Tri-level dimming output
- Daylight sensor build in
- Remote controller setting

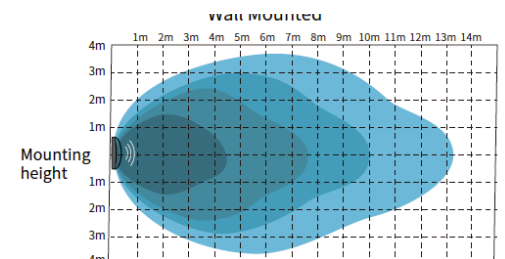
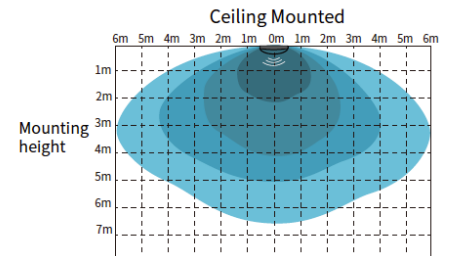


Wiring Diagram



Coverage Patterns

Sensitivity : 25% 50% 75% 100%

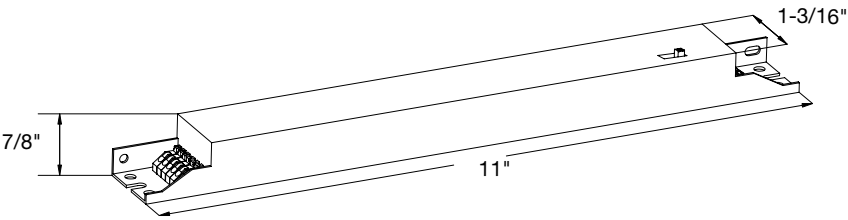




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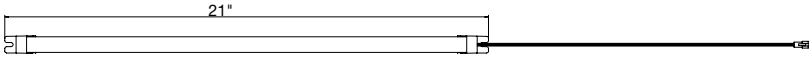
LINE DRAWINGS

Driver Dimensions



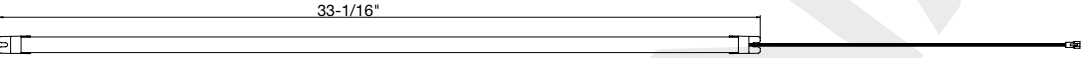
WEIGHT	
Driver	0.55lbs

2FT



WEIGHT	
ULB2-20L-U-40	0.11lbs
ULB3-30L-U-40	0.18lbs
ULB4-40L-U-40	0.24lbs

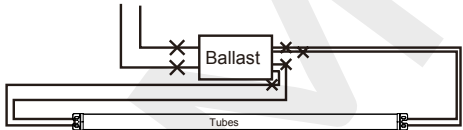
3FT



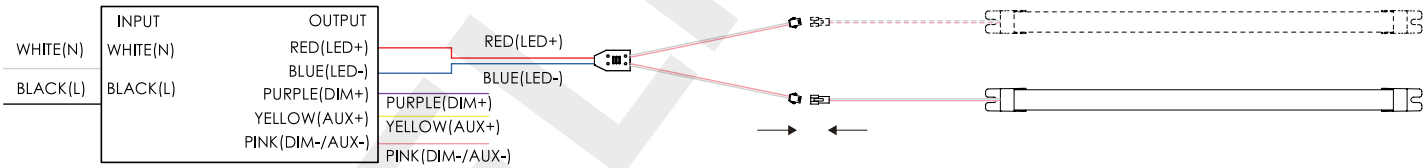
4FT



Light Bar Installation

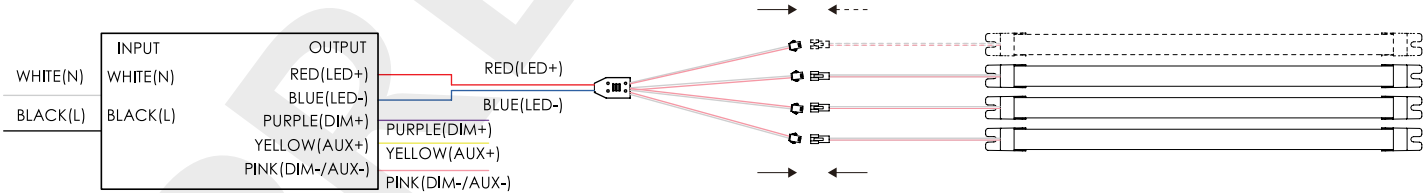


Cut all wires connecting ballast.



LED Driver

Kit of 1 / Kit of 2



LED Driver

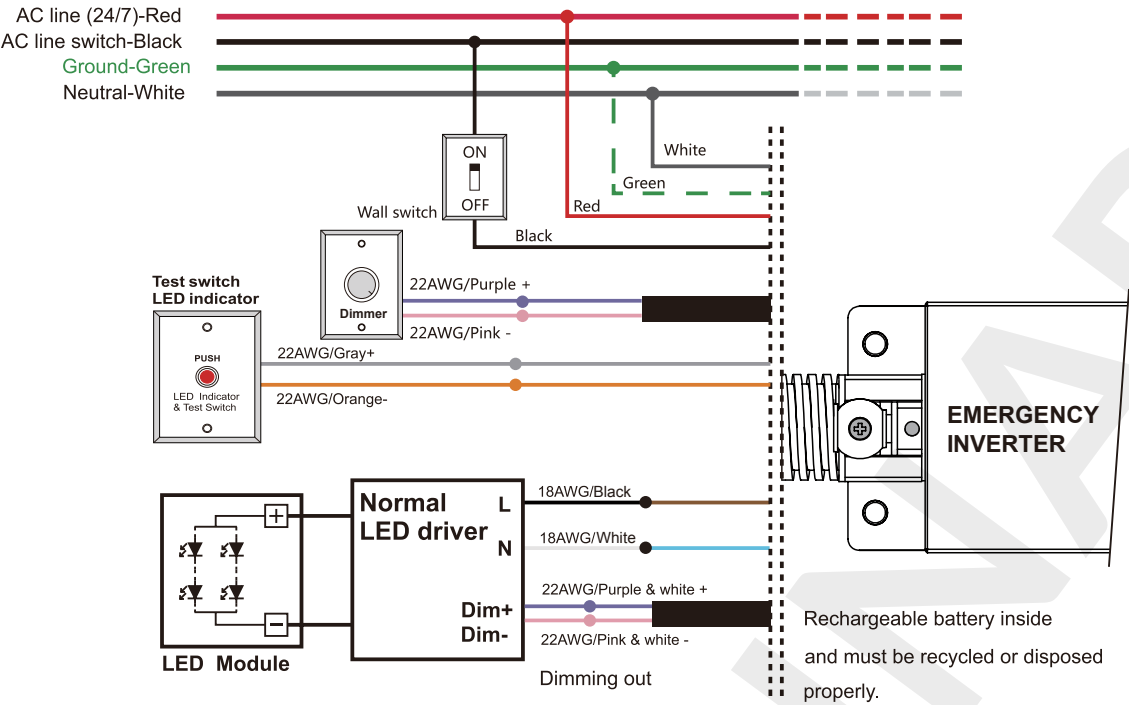
Kit of 3 / Kit of 4



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LINE DRAWINGS (Continued)

Emergency Inverter Installation



TYPE	PART NUMBER	LUMEN OUTPUT LEVEL AT EM MODE - Kit of 1		LUMEN OUTPUT LEVEL AT EM MODE - Kit of 2/3/4	
		8EMINVERTER	24EMINVERTER	8EMINVERTER	24EMINVERTER
Light Bar	ULB2-20L-U-40	1,300 lm	1,800 lm	1,300 lm	3,400 lm
	ULB3-30L-U-40	1,300 lm	2,700 lm	1,300 lm	3,400 lm
	ULB4-40L-U-40	1,300 lm	3,400 lm	1,300 lm	3,400 lm



UNIVERSAL LIGHT BAR KIT

ACCESSORIES

PRODUCT	MODEL	DESCRIPTION	IMAGES	DIMENSIONS
37934	8EMINVERTER	California Title 20 Compliant 8W Emergency LED Inverter (Field Installation)		
38096	24EMINVERTER	California Title 20 Compliant 24W Emergency LED Inverter (Field Installation)		
37936	TAPETESTACC	Adhesive Field Fixture Mount Test Switch and Indicator Light		
37937	CEILTESTACC	Remote Round Ceiling Mount Test Switch and Indicator Light		
37938	WALLPLATE	Single Gang Jbox Face Plate		
MS021R	MWS	Microwave Sensor (Field Installation)		
MR010	MR010	Microwave Sensor Remote Controller		