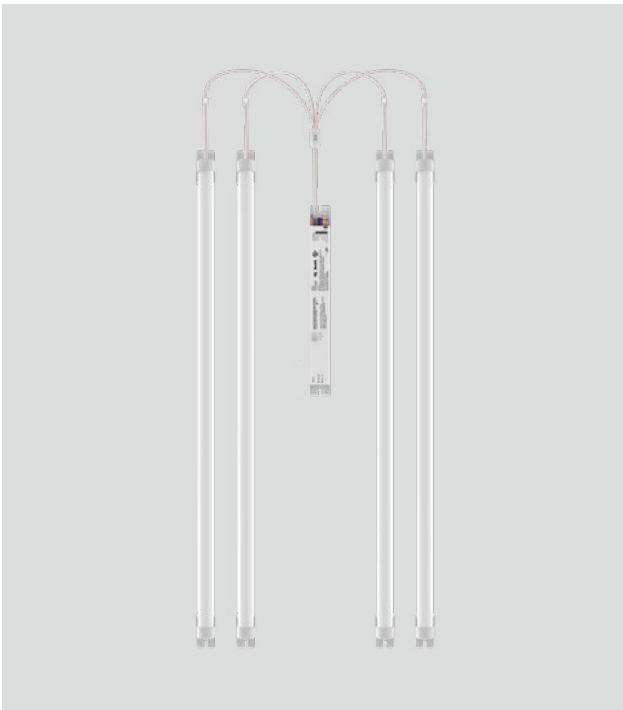


Project Name:	Type:
Part Number:	Date:

# UNIVERSAL LIGHT BAR KIT

## SPECIFICATION FEATURES

- Universal Light Bar Kit designed for cost effective and energy efficient LED linear retrofit applications
- Plastic Housing with Polycarbonate Frosted Lens for durability and lightweight construction
- Light Bars feature quick connectors for efficient installation and labor savings
- Fits seamlessly between pre-existing sockets eliminating need to remove pre-existing sockets
- Magnets fixed on back of light bars and drivers for alignment with self-tapping tek screws included to secure light bars and drivers to surface
- Available in 1 to 4 light bar kit options with 2', 3' and 4' lengths and lumen outputs 1800lm, 2700lm, 3600lm
- Field Lumen Selectable driver options
- Fixed 4000K Cool White color temperature
- Exceptional efficacy up to 163 LPW
- 0-10V dimmable (dims to 10%)
- Controls option for added energy savings and controllability
- Light bar ambient temperature: -4°F to 122°F (-20°C to 50°C)
- Calculated lifetime (L70) up to: 100,000hrs
- 5 year limited warranty / Optional 10 year available (see EXTENDED WARRANTIES table for information)
- Suitable for use in totally enclosed fixtures and damp locations



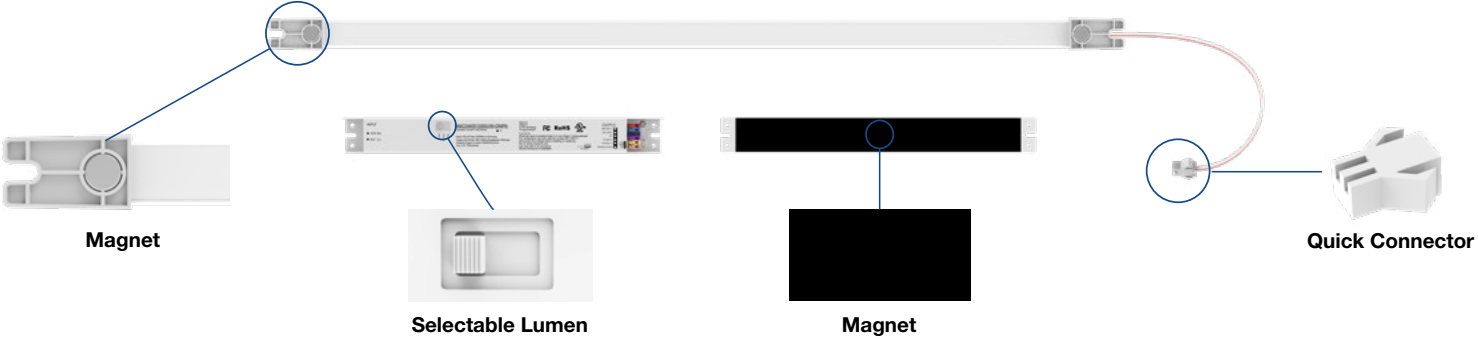
### DIGITAL NAVIGATION

Explore the spec sheet through the links below

<a href="#">ORDERING GUIDE</a>	<a href="#">TECHNICAL INFORMATION</a>
<a href="#">LINE DRAWINGS</a>	<a href="#">ACCESSORY ORDERING INFORMATION</a>
<a href="#">INSTALLATION</a>	<a href="#">SALES KITS REFERENCES</a>
<a href="#">LOGISTIC INFORMATION</a>	<a href="#">EXTENDED WARRANTIES</a>
<a href="#">CERTIFICATION INFORMATION</a>	



## FOCUS FEATURE



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# UNIVERSAL LIGHT BAR KIT

## ORDERING GUIDE

PART #				Example: 20LB/2F/840/U/A1	
Series <sup>1</sup>	CCT	Driver	Light Bar Qty	Warranty	Sensors
<b>20LB/2F<sup>2</sup></b> 1,800lm Light Bar, 2FT	<b>840</b> 4000K	<b>U</b> 120-277V Universal	<b>A1</b> One bar	<b>BLANK</b> 5YR Warranty  <b>10YR</b> 10YR Warranty	<b>BLANK</b> No Sensor  <b>MWS</b> Microwave Sensor
<b>30LB/3F<sup>2</sup></b> 2,700lm Light Bar, 3FT			<b>A2</b> Two bars		
<b>40LB/4F</b> 3,600lm Light Bar, 4FT			<b>A3</b> Three bars		
			<b>A4</b> Four bars		

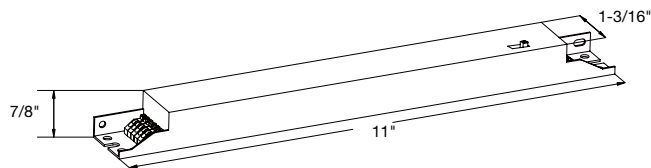
FOOTNOTES: 1. Refer to [SALES KITS REFERENCES](#) for more details. 2. Contact factory for lead-time of 3ft bars (kit of 1, 2, 3, and 4) and 2ft bars (kit of 3 and 4).

## TECHNICAL INFORMATION

Part #	EAN	Nominal Light Bar Length	Light Bar Qty.	Bare Light Bar - 4000K CCT - Lumens	Bare Light Bar - 4000K CCT - Efficacy (lm/W)	Inside Fixture - 4000K CCT - Lumens	Inside Fixture - 4000K CCT - Efficacy (lm/W)
38702	20LB/2F/840/U/A1	2FT	1	1,800	164	N.A.	N.A.
38703	20LB/2F/840/U/A2	2FT	2	2,300 / 2,900 / 3,600	164 / 161 / 164	1,751 / 2,252 / 2,734	125
38704	20LB/2F/840/U/A3	2FT	3	2,900 / 4,100 / 5,400	161 / 164 / 164	2,264 / 3,145 / 4,056	126
38705	20LB/2F/840/U/A4	2FT	4	5,200 / 5,900 / 6,500	163 / 164 / 163	4,090 / 4,601 / 5,062	128
38706	30LB/3F/840/U/A1	3FT	1	1,800 / 2,300 / 2,600	164 / 164 / 158	N.A.	N.A.
38707	30LB/3F/840/U/A2	3FT	2	2,900 / 4,100 / 5,400	161 / 164 / 164	2,365 / 3,285 / 4,240	131
38708	30LB/3F/840/U/A3	3FT	3	5,200 / 5,900 / 6,500	163 / 164 / 163	4,218 / 4,745 / 5,149	132
38709	30LB/3F/840/U/A4	3FT	4	5,200 / 5,900 / 6,500	163 / 164 / 163	4,230 / 4,759 / 5,127	132
38710	40LB/4F/840/U/A1	4FT	1	2,300 / 2,900 / 3,600	164 / 161 / 164	N.A.	N.A.
38711	40LB/4F/840/U/A2	4FT	2	5,200 / 5,900 / 6,500	163 / 164 / 163	4,173 / 4,694 / 5,144	130
38712	40LB/4F/840/U/A3	4FT	3	5,200 / 5,900 / 6,500	163 / 164 / 163	4,214 / 4,741 / 5,136	132
38713	40LB/4F/840/U/A4	4FT	4	5,200 / 5,900 / 6,500	163 / 164 / 163	4,128 / 4,745 / 5,102	132

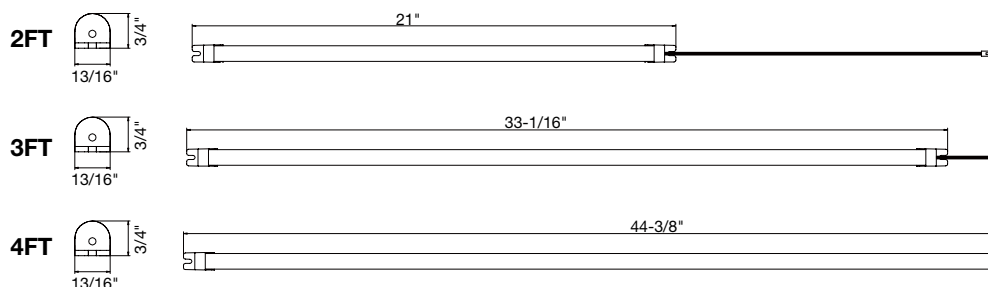
## LINE DRAWINGS

### Driver Dimension



Weight	
Driver	0.55lbs


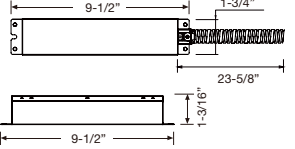

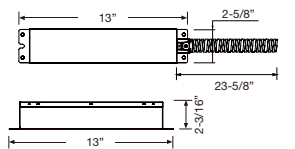

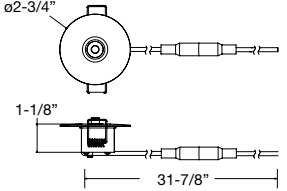

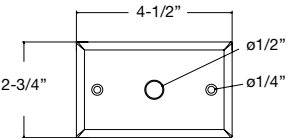

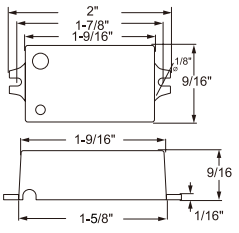
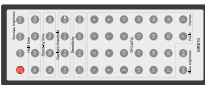
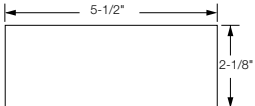
### Bar Dimension



Weight	
20LB/2F/840	0.11lbs
30LB/3F/840	0.18lbs
40LB/4F/840	0.24lbs

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# UNIVERSAL LIGHT BAR KIT

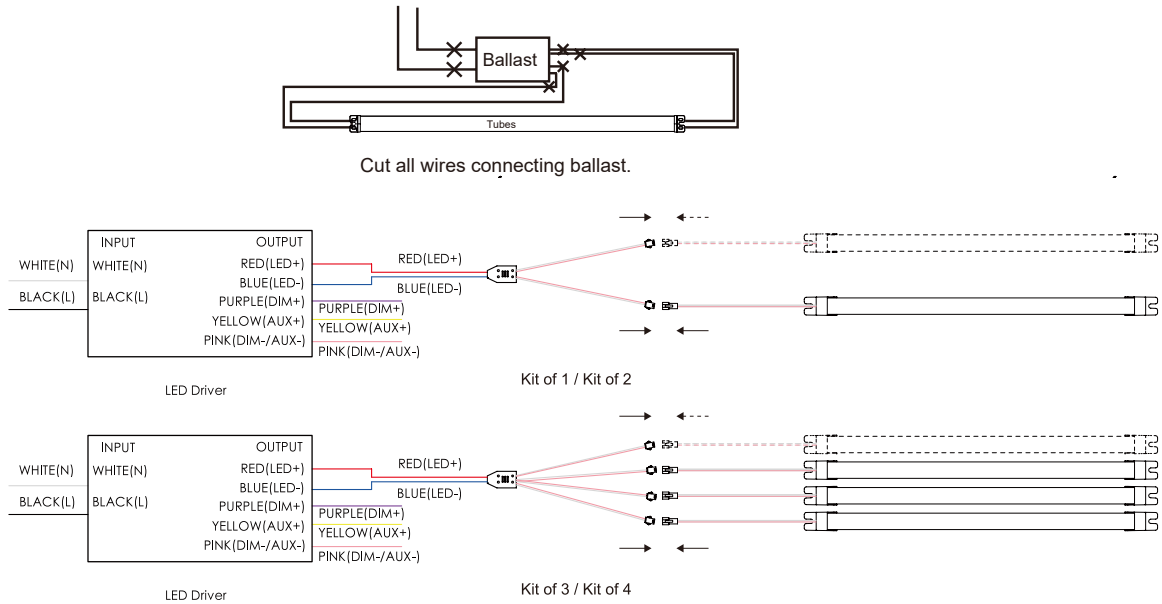
ACCESSORY ORDERING INFORMATION				
Product	Model	Description	Pictures	Dimensions
37934	8EMINVERTER	California Title 20 Compliant 8W Emergency LED Inverter (Field Installation)		
38096	24EMINVERTER	California Title 20 Compliant 24W Emergency LED Inverter (Field Installation)		
37937	CEILTESTACC	Remote Round Ceiling Mount Test Switch and Indicator Light (Field Installation)		
37938	WALLPLATE	Single Gang Jbox Face Plate (Field Installation)		
MS021R	MS021R	Microwave Sensor (Field Installation)		
MR010	MR010	Microwave Sensor Remote Controller, for MS021R		

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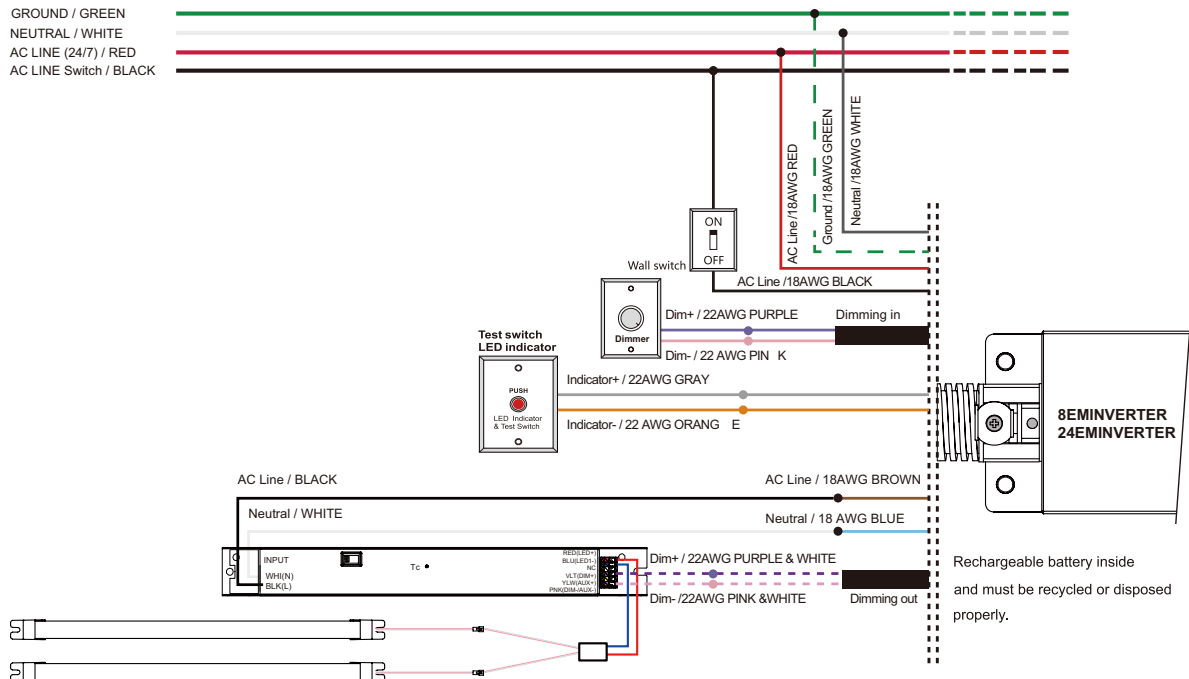
# UNIVERSAL LIGHT BAR KIT

## INSTALLATION

### Light Bar Installation



### Emergency Inverter Installation



Type	Model EM BACKUP	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	20LB/2F/840	1,300lm	1,800lm	1,300lm	3,900lm
	30LB/3F/840	1,300lm	2,700lm	1,300lm	3,900lm
	40LB/4F/840	1,300lm	3,600lm	1,300lm	3,900lm

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# UNIVERSAL LIGHT BAR KIT

## INSTALLATION

### Accessory-2in1 Test Switch with Indicator Light (Supplied with the EM INVERTER)

1. Pre-open a 1/2 " hole on the fixture housing and fix the test button on the fixture housing (Figure 1-1).
2. Wire the test button to EM inverter indicator & Test button wires (Figure 1-2).



Figure 1-1

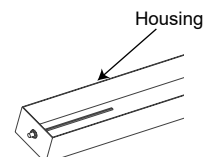


Figure 1-2

#### Indicator Light:

Red On: Charging/ Fully Charged

Off: Emergency Mode/Open Circuit / LED Load Exceeds Nominal Emergency Power 2-Second Slow Flashing: indicates the need for charging or compatibility testing in standby mode. If it continues to flash slowly after being charged within 24 hours, it suggests incompatibility with fixtures.

0.5-Second Fast Flashing: Signifies a failure, indicating a lack of connection to power or load. It is recommended to check the wiring in such cases

#### Test switch:

Activating the test switch while the main power supply is on will cause the Emergency Conversion kit to enter emergency mode. Conversely, it will enter charging mode if the test switch is not pressed.

To exit the emergency mode, press the test switch for a duration of 3 seconds while in emergency mode

### Accessory-Single Gang Jbox Face Plate (Optional)

1. Attach the indicator to the Single Gang Jbox Face Plate (refer to Figure 2-1)
2. Connect the indicator wire to the inverter located within the junction box (not included)
3. Securely fasten the plate onto the junction box using 2 screws (refer to Figure 2-2).

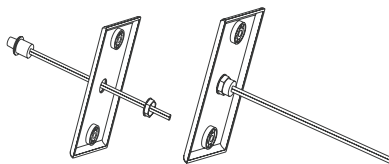
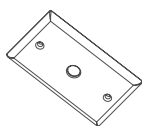


Figure 2-1

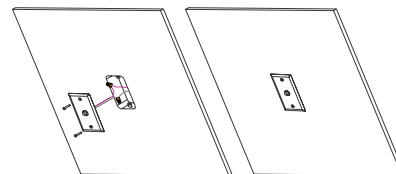


Figure 2-2

### Accessory - Remote Round Ceiling Mount Test Switch and Indicator Light (Optional)

1. Disconnect the quick connector of the Remote Round Ceiling Mount Test Switch and indicator Light (refer to Figure 3-1).
2. Create a hole in the ceiling with a diameter between 2" and 2 3/8". then route the indicator cord to the inverter within the junction box (not included) and reconnect the quick connector (refer to Figure 3-2).
3. Pinch the 2 springs, insert them into the ceiling hole, and release the springs (refer to Figure 3-3).

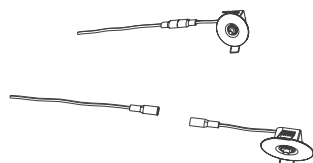


Figure 3-1

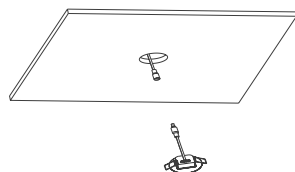


Figure 3-2

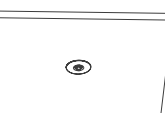
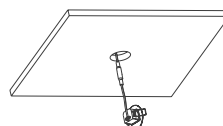


Figure 3-3



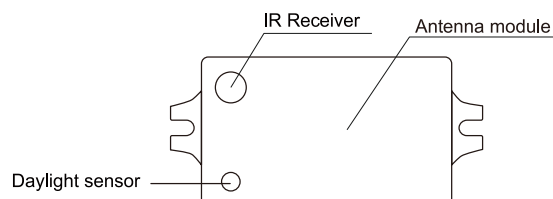
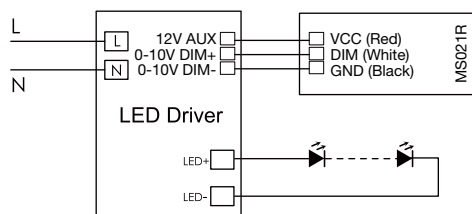
# UNIVERSAL LIGHT BAR KIT

## INSTALLATION

### Accessory – Microwave Sensor (Optional)

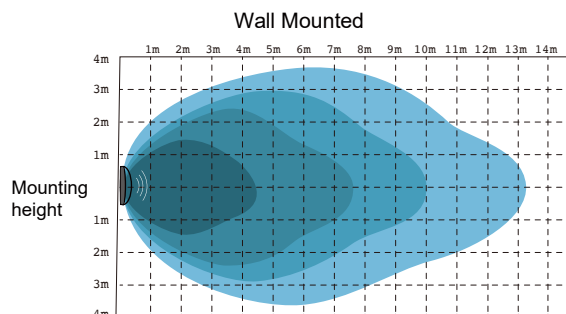
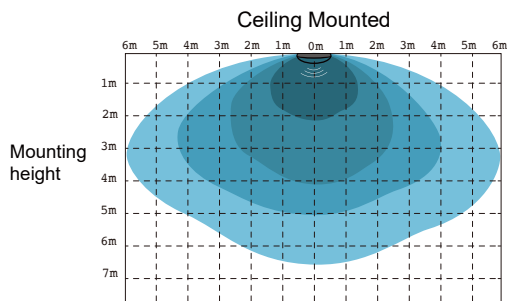
- 5.8GHz microwave motion sensor build in 2.4GHz RF module
- Grouping and synchronize function for different lights
- Tri-level dimming output
- Daylight sensor build in
- Remote controller setting

### Wiring diagram



### Detection coverage

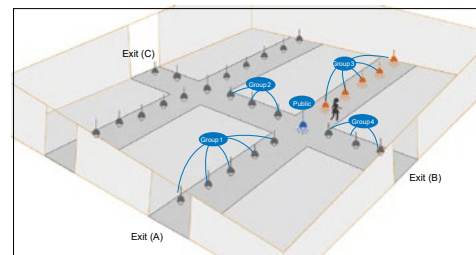
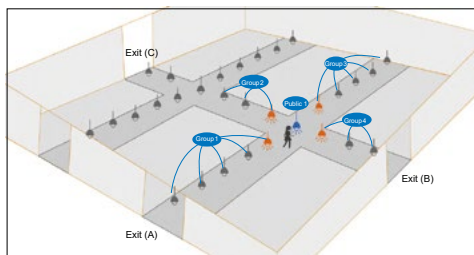
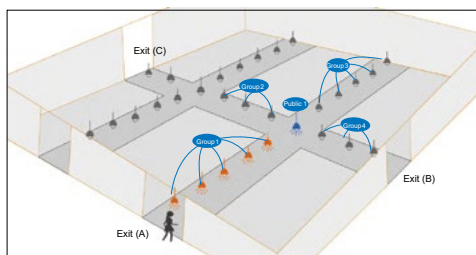
Sensitivity : 25% 50% 75% 100%



### 2.4GHz RF Grouping Function Introduce

#### Remark:

1. Point to point RF communication distance around 15m.
2. Public sensor will not make the 2nd transfer the synchronize signal to the next device when it was trigger by the near by motion sensor.



1. When the group 1 detect any motion, the sensor will turn on and transfer synchronize signal to the whole group, it will trigger the public sensor 1 which close to the group 1, but the public sensor 1 will not transfer the signal to others, so you can see the group 2, group 3 and group 4 will not turn on.

2. When the public sensor detect motion directly, it will transfer the synchronize signal one time only, you can see the sensor near by the public1 will turn on but those next will not.

3. When group 3 sensor detect motion, it will turn on and transfer synchronize signal at the same time, the group 3 sensors will turn on and the near by public sensor 1 will trigger and turn on, but it will not transfer synchronize signal to others, those sensors near by the public sensor 1 will not turn on.

# UNIVERSAL LIGHT BAR KIT

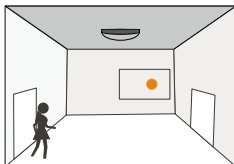
## INSTALLATION

Accessory – Microwave Sensor (Optional)

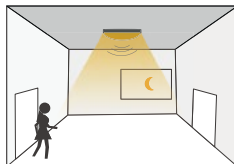
### Application

#### 1. ON/OFF function:

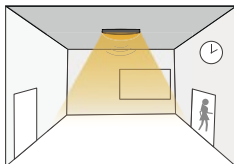
1.) The daylight threshold is set to "5Lux/25Lux/100Lux", Stand-by period is set to "0s".



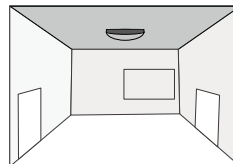
With sufficient daylight, even when motion detected, light remains OFF.



With insufficient ambient brightness, light dims to 100% when motion was

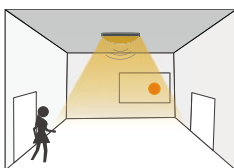


Light keeps on 100% within the holdtime.

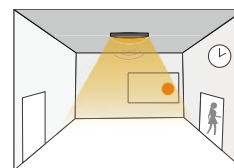


After the last detection and the preset hold time elapsed, light OFF.

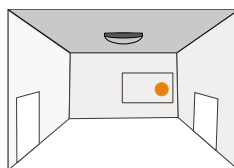
2.) The daylight threshold is set to "Disable", Stand-by period is set to "0s".



When motion is detected, the sensor will switch on the light to 100% brightness.



After people leave the detection area, light remains 100% brightness within hold



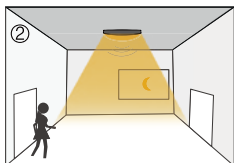
After the last detection and the present hold time elapsed, light OFF.

#### 2. Dimmable control/Corridor function:

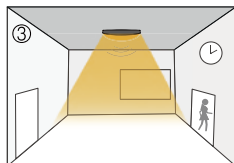
The daylight threshold is set to "5Lux/25Lux/100Lux", stand-by period is set to "10s/10min/24h".



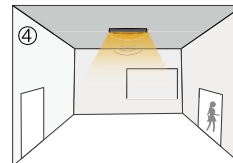
With sufficient daylight, even when motion detected, light remains OFF.



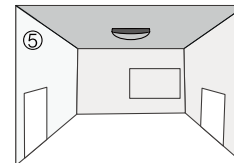
With insufficient ambient brightness, light dims to 100% when motion was



Light keeps on 100% within the holdtime.



Light dims to standby level if no motion detected after holdtime.



After the stand-by period, light OFF.

Accessory – Remote Controller (Optional)

Key <sup>3</sup>	Function
ON/OFF	Setting the light permanent ON or OFF without motion sensor mode.
Auto	Turn on the sensor mode
Hold time	The period of light keeping 100% brightness after moving objects leave the detection area.
Daylight threshold	Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor will detects motion regardless the ambient brightness.
Sensitivity	Detection range, movement will be detected and able to trigger the sensor. 100% detection range is also known as the strong sensitivity.
Stand-by period	The period of light keeping low output before it's completely switched off. When it's preset as "+∞", the light always keep at low output if no movement in the detection area and doesn't turn off.
Stand-by dimming level	The dimming level in the stand-by period.
Grouping	To set up a group which the sensors are on power and receive the remote controller signal. User can set 24 groups for grouping, no sensor qty limited in one group.
Public	Set the sensor as a public device, public device will be triggered by any synchronize signal from any groups, but will not relay signal to others. It is suitable to set the crossing device as public device.
Dismiss	Override the grouping function
Salve Brightness	Set the slave lights brightness level, users can set the lights far away from the people movement areas in a lower brightness to save energy. When set 100%, the slave lights will turn on at 100% when it recieve the RF signal, to get high performance. When set 50%, the salve lights will turn on at 50%, and slave device will no relay the RF signals to others, to save energy.



Size (L\*W\*H):  
5.47" x 2.12" x 0.39"  
Please use CR2025  
battery

FOOTNOTES: 3. Remote Setting Tips: When press any button, if the light is flickering one time, means the setting is successful.

# UNIVERSAL LIGHT BAR KIT

## SALES KITS REFERENCES

Part #	GC Model No.	GC Light Bar Model	Light Bar Quantity
38702	20LB/2F/840/U/A1	20LB/2F/840	1
38703	20LB/2F/840/U/A2	20LB/2F/840	2
38704	20LB/2F/840/U/A3	20LB/2F/840	3
38705	20LB/2F/840/U/A4	20LB/2F/840	4
38706	30LB/3F/840/U/A1	30LB/3F/840	1
38707	30LB/3F/840/U/A2	30LB/3F/840	2
38708	30LB/3F/840/U/A3	30LB/3F/840	3
38709	30LB/3F/840/U/A4	30LB/3F/840	4
38710	40LB/4F/840/U/A1	40LB/4F/840	1
38711	40LB/4F/840/U/A2	40LB/4F/840	2
38712	40LB/4F/840/U/A3	40LB/4F/840	3
38713	40LB/4F/840/U/A4	40LB/4F/840	4

## LOGISTIC INFORMATION

Model	Master Carton			Pallet		
	Carton Qty	Carton Dimensions (LxWxH)	Carton Weight	Carton / Pallet	Dimensions (LxWxH)	Pallet Weight
20LB/2F/840/U/A1	24	22-3/16" x 12" x 12-7/16"	22.6 lbs	42	47-3/16" x 39-3/8" x 95-1/2"	989 lbs
20LB/2F/840/U/A2	24	22-3/16" x 12" x 12-7/16"	26.6 lbs	42	47-3/16" x 39-3/8" x 95-1/2"	1,158 lbs
20LB/2F/840/U/A3	24	22-3/16" x 18-5/16" x 12-7/16"	34.5 lbs	28	47-3/16" x 39-3/8" x 95-1/2"	1,007 lbs
20LB/2F/840/U/A4	24	22-3/16" x 18-5/16" x 12-7/16"	36.7 lbs	28	47-3/16" x 39-3/8" x 95-1/2"	1,068 lbs
30LB/3F/840/U/A1	24	34-5/16" x 12" x 12-7/16"	27.1 lbs	28	47-3/16" x 39-3/8" x 95-1/2"	800 lbs
30LB/3F/840/U/A2	24	34-5/16" x 12" x 12-7/16"	32.8 lbs	28	47-3/16" x 39-3/8" x 95-1/2"	957 lbs
30LB/3F/840/U/A3	24	34-5/16" x 18-5/16" x 12-7/16"	43.5 lbs	14	47-3/16" x 39-3/8" x 95-1/2"	649 lbs
30LB/3F/840/U/A4	24	34-5/16" x 18-5/16" x 12-7/16"	45.8 lbs	14	47-3/16" x 39-3/8" x 95-1/2"	681 lbs
40LB/4F/840/U/A1	12	45-11/16" x 8-5/16" x 9-7/16"	22.5 lbs	36	47-3/16" x 39-3/8" x 94-1/2"	850 lbs
40LB/4F/840/U/A2	12	45-11/16" x 8-5/16" x 9-7/16"	26.4 lbs	36	47-3/16" x 39-3/8" x 94-1/2"	990 lbs
40LB/4F/840/U/A3	12	45-11/16" x 12-7/16" x 9-7/16"	26.6 lbs	27	47-3/16" x 39-3/8" x 94-1/2"	758 lbs
40LB/4F/840/U/A4	12	45-11/16" x 12-7/16" x 9-7/16"	31.2 lbs	27	47-3/16" x 39-3/8" x 94-1/2"	881 lbs

## EXTENDED WARRANTIES<sup>4</sup>

Product <sup>5</sup>	Description
20LB/2F/840/U/Ax/10YR	10 Year warranty for 20LB/2F/840/U/A1,2,3,4
30LB/3F/840/U/Ax/10YR	10 Year warranty for 30LB/3F/840/U/A1,2,3,4
40LB/4F/840/U/Ax/10YR	10 Year warranty for 40LB/4F/840/U/A1,2,3,4

### FOOTNOTES:

4. Warranty based on a maximum of 4,368 annual operating hours (per year for ten years) and exposure to a maximum fixture operating temperature of 80°F / 27°C

5. x – Refers to the bar quantity



# UNIVERSAL LIGHT BAR KIT

CERTIFICATION INFORMATION	
Model	DLC ID#
40LB/4F/835/U/A3[All Options and Control Options]	S-0WFX7M
20LB/2F/835/U/A3[All Options and Control Options]	S-1L0TY4
20LB/2F/850/U/A3[All Options and Control Options]	S-2JK43Q
30LB/3F/840/U/A2[All Options and Control Options]	S-3MM28Q
30LB/3F/850/U/A2[All Options and Control Options]	S-4V64M0
30LB/3F/840/U/A3[All Options and Control Options]	S-4VHFBL
40LB/4F/835/U/A2[All Options and Control Options]	S-4X2VBM
40LB/4F/840/U/A4[All Options and Control Options]	S-6VCH6M
40LB/4F/850/U/A2[All Options and Control Options]	S-78KP4P
30LB/3F/840/U/A4[All Options and Control Options]	S-7RMWYG
30LB/3F/835/U/A4[All Options and Control Options]	S-8RX9CG
20LB/2F/850/U/A2[All Options and Control Options]	S-8ZDS3X
40LB/4F/840/U/A2[All Options and Control Options]	S-93Z1BK
20LB/2F/840/U/A4[All Options and Control Options]	S-94PSWN
20LB/2F/835/U/A4[All Options and Control Options]	S-B96RG1
40LB/4F/840/U/A3[All Options and Control Options]	S-BBFYS8
30LB/3F/835/U/A2[All Options and Control Options]	S-BQ0M58
40LB/4F/850/U/A3[All Options and Control Options]	S-DV4K73
40LB/4F/850/U/A4[All Options and Control Options]	S-KDXVBD
20LB/2F/850/U/A4[All Options and Control Options]	S-M1JBB4
30LB/3F/850/U/A3[All Options and Control Options]	S-M2Q2SW
30LB/3F/835/U/A3[All Options and Control Options]	S-QKV6H8
20LB/2F/835/U/A2[All Options and Control Options]	S-S1SH6F
20LB/2F/840/U/A2[All Options and Control Options]	S-TNB9HM
20LB/2F/840/U/A3[All Options and Control Options]	S-W27Z1R
40LB/4F/835/U/A4[All Options and Control Options]	S-WFLQ68
30LB/3F/850/U/A4[All Options and Control Options]	S-Z421XZ