











This Magic LED linear fixture is a 2.3" wide linear architectural luminaire with a slim and discreet profile. The Magic available in standard lengths of 2', 3', 4', and 8', and can be joined together in seamless runs of desired length. The Magic is an affordable indirect/direct linear LED luminaire. Various optical design delivers uniform, continuous lines of light. Different pattern joiners available for unlimited lighting pattern design.

### **TECHNICAL DATA**

Length	2ft, 3ft, 4ft, 8ft
CRI	80
ССТ	3000K, 3500K, 4000K
Dimming	1-10V Dimming
Compatible Dimmer	LUTRON: DVSTV
	LEVITON: IP710
Input Voltage	120-277V, 50/60Hz
Operating Temp.	-4°F to 104°F (-20°C to 40°C)
Certifications	cULus conforms to UL Std. 1598
	Cert. to CSA Std. C22.2 No.250.0
	Suitable for damp locations
	RoHS compliant
Power Factor	>0.9 at full load
Harmonic Distortion	<20% at full load
Projected Lifetime	L70-100,000 Hours

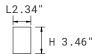
### **FEATURES**

- Comes in lengths of 2', 3', 4', and 8'.
- Direct and indirect.
- Available with several lit joiner accessories for unlimited lighting pattern design.
- Professional lenses available in flush diffused, louver, micro reflector and regress lens.
- Microwave sensor and EBU are available.

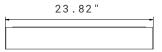


# **SPECIFICATION**

Side View



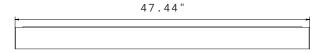
2ft



3ft



4ft



8ft





# **ORDERING INFORMATION**

EXAMPLE: MAG1223-SW1-PSM-SD-FDL

MAG					
1. Series	2. Length	3. Width	4. Driver	5. CCT	6. Voltage
MAG Magic	06 2ft 09 3ft 12 4ft 24 8ft Option¹ Desired System Length	23 2.3 Inch	BLANK Integral	Selectable CCT SW <sup>2</sup> Selectable 3000K 3500K 4000K <sup>2</sup> Single CCT <sup>3</sup> 30 3000K 35 3500K 40 4000K	1 120-277V
	7. Mounting Options	8. Light Distribution	9. Lens Options	10. Finish	
	PSM Suspended and surface mounted  Please refer to the following accessory table to choose the right mounting kits.	SD Following options available by dip switch 100% Uplight 10% down, 90% up 30% down, 70% up 50% down, 50% up 70% down, 30% up 90% down, 10% up 100% Downlight <sup>4</sup>	FDL Flush Diffused Lens RGL <sup>6</sup> Regressed Lens LVL <sup>6</sup> Louver Lens MRF <sup>5&amp;6</sup> Micro Reflector  If the joined length exceeds 8ft, only continous Roll-Out Lens can be used.	BLANK White BK Black	



#### NOTE:

- 1. Individual fixtures, Runs and Configurations are supplied in nominal lengths to ensure full, even, illumination. If desired runs and configurations are needed, please tell us the details in advance. Then we can prepare the middle run and end run in factory for easy installation, or end user need to modify the standard individual fixtures into middle run and end run.
- 2. 4000K is default setting.
- 3. Single CCT is only for Micro Reflector.
- 4. Default setting is 100% downlight.
- 5. MRF is only available in 4ft and single CCT.
- 6. RGL, LVL and MRF lens will ask long lead time for 2ft, 3ft and 8ft. Please check with Customer Service in advance.

# ACCESSORIES (ORDERED SEPARATELY AND FIELD INSTALLED)



Drop Ceiling Suspension Mount List.

#### MAG-PMK3-5FT<sup>1</sup>

Aircraft Cable Pendant Mount Kits for Drop Ceiling, with 5ft aircraft cable and 5ft power cord (One set per fixture). MAG-PMK3-12FT<sup>1</sup>

Aircraft Cable Pendant Mount Kits for Drop Ceiling, with 12ft aircraft cable and 12ft power cord (One set per fixture).

#### NOTE:

Suitable for 9/16" and 15/16" Flat Ceiling.
 If for 9/16" slot ceiling please contact Customer Service.



Dry Ceiling Suspension Mount List.

#### MAG-PMK1-5FT

Aircraft Cable Pendant Mount Kits for Dry Ceiling, with 5ft aircraft cable and 5ft power cord (One set per fixture).

#### MAG-PMK1-12FT

Aircraft Cable Pendant Mount Kits for Dry Ceiling, with 12ft aircraft cable and 12ft power cord (One set per fixture).



# ACCESSORIES (ORDERED SEPARATELY AND FIELD INSTALLED)



MAG23-LINE Line Shape Joiner.



MAG23-CROSS Cross Shape Joiner, white.



MAG23-T T Shape Joiner, white.



MAG23-L 90° L Shape Joiner, white.



MAG23-Y Y Shape Joiner, white.



MAG23-Z Z Shape Joiner, white.



MAG23-Hex Hub 120° Hex-hub Joiner, white.



MAG23-CURVE-LIT

90° Curve Joiner with

light, white.

MAG23-CURVE

90° Curve Joiner without light, white.



MAG-MSW-PM/SM<sup>1</sup> Microwave Motion Sensor Kit for Pendant Mounting.



RC-100 Remote Control for Microwave Motion Sensor.



MAG-SMK Surface Mount Kits.



ACGP
Aircraft Cable Gripper
(a pair). Suitable for
Φ0.06"-0.08"(1.5mm-2
mm) aircraft cable
including two pieces.



# ACCESSORIES (ORDERED SEPARATELY AND FIELD INSTALLED)





EBU-H08170<sup>2</sup>

**8W Emergency Battery** Back-up for MAX.60W fixture.

MAG23-ROL<sup>3</sup> Continuous Roll-Out Lens (42').

EBU-H25170<sup>2</sup>

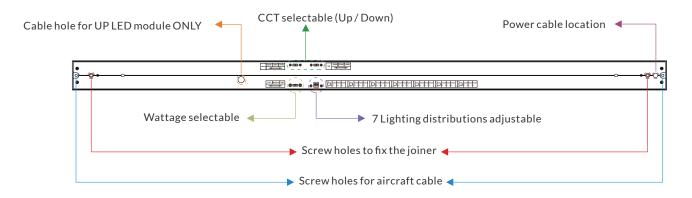
MAG23-SCL<sup>3</sup> 25W Emergency Battery 40' silicon lens.

Back-up for MAX.200W fixture.

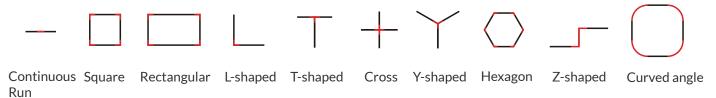
### NOTE:

- 1. Microwave dimming sensor, for mounting height 20ft (6m) max. Dimming default setting is Bi-Level dim and dimming to 50%. Besides, daylight sensor default setting is disable. If need other dimming levels such as 10% or 30%, ON/OFF function and daylight sensor function, please consult with customer service in advance.
- 2. Emergency battery back-up is for ambient temperatures of 32°F to 95°F (0°C to 35°C).
- If the straigt joined length exceeds 8ft, please choose continous Roll-Out Lens. If curve joniner is used, silicon lens must be used too.

### MOUNTING LOCATION



#### CONFIGURED SHAPES





# PERFORMANCE DATA

Lumen values are measured by third party certified laboratories performed in accordance with IESNA LM-79-08 as well as Lighting Facts listed.



Lengths	2FT/3FT/4FT/8FT	2FT/3FT/4FT/8FT	4FT	2FT/3FT/4FT/8FT		
Width	Width 2.3" 2.3"		2.3"	2.3"		
Wattage	10W/15W/20W selectable 15W/20W/30W selectable 20W/30W/40W selectable 40W/60W/80W selectable					
Voltage	ge 120-277V (Int.Driver) 120-277V (Int.Driver)		120-277V (Int.Driver)	120-277V (Int.Driver)		
Lumen Output Low level	575lm/ft, 5W/ft	450lm/ft, 5W/ft	575lm/ft, 5W/ft	450lm/ft, 5W/ft		
Lumen Output Medium level	860lm/ft,7.5W/ft	675lm/ft,7.5W/ft	860lm/ft,7.5W/ft	710lm/ft,7.5W/ft		
Lumen Output High level	1150lm/ft,10W/ft	1150lm/ft,10W/ft 900lm/ft,10W/ft		950lm/ft,10W/ft		
Installation		Suspended				
Controls (optional)	Emergency Battery Back-up / Motion Sensor					

#### NOTE

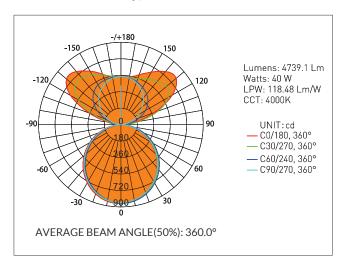
- 1. Notes: Above are subject to 3500K with 50% up and 50% down lighting distribution. All efficacy is ±5% base on different CCT and lighting distributions. If silicon lens are used the efficacy will decreased by 10%. Check the IES file to gain the accurate data.
- 2. For 3000K fixtures, use 0.96 multiplier; For 4000K fixtures, use 1.04 multiplier.



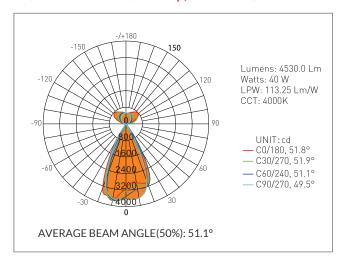
### **PHOTOMETRY**

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%. Results may vary per actual order.

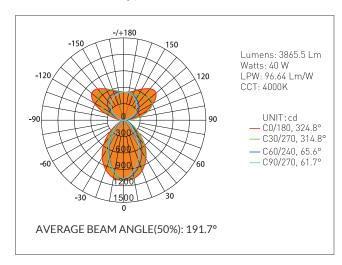
#### 4ft/ Diffuser/50% Up, 50% Down/ 4000K



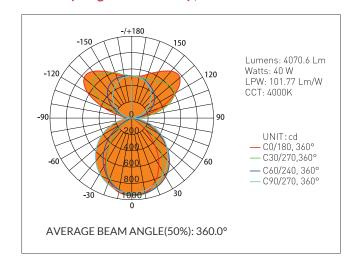
#### 4ft/ Micro Reflector/50% Up, 50% Down/ 4000K



#### 4ft/Louver/50% Up, 50% Down/ 4000K



#### 4ft/ Deep Regressed/50% Up, 50% Down/ 4000K



#### NOTE:

1. These distribution diagram is tested based on suspended mount.



### MICROWAVE DIMMING SENSOR

### **3-Step Dimming Function**

The sensor is an innovative motion sensor, switch on the light on detection of movement, and switch off after a hold time when there is no motion detected.



1. No motion detected, all lamps switch off.



2. Any movement is detected from any direction, all lamps synchronously switch on.



3. No motion is detected in detection area, all lamps synchronously dim to a low light level after hold time.



4. After stand-by period, the lamps switch off if no movement is detected in the detection zone.

# MICROWAVE DIMMING SENSOR SETTING (120-277V)

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

The sensor setting also can be done by a remote control (RC-100) which need to be bought separately.

	1	2	
ı	1	<b>↓</b>	20%
II	<b>1</b>	1	50%
Ш	1	<b>↓</b>	75%
IV	1	1	100%

### Sensitivity

Sensitivity can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Default Setting: 100%

	3	4	
ı	<b>↓</b>	<b>+</b>	10s
П	<b>↓</b>	1	1min
Ш	1	<b>+</b>	5mins
IV	1	1	15mins

### Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Default Setting: 15mins

	5	6	
ı	<b>↓</b>	<b>+</b>	*
II	1	1	10 lux
Ш	1	<b>+</b>	30 lux
IV	1	1	50 lux

#### Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness thresshold.

Default Setting: \* (Disable)



	7	8	
ı	<b>+</b>	<b>↓</b>	0%
II	<b>+</b>	1	10%
Ш	1	<b>↓</b>	30%
IV	1	1	50%

#### Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of people.

Default Setting: 50%

	9	10	
ı	<b>↓</b>	<b>↓</b>	+∞
Ш	<b>+</b>	1	1min
Ш	1	<b>\</b>	30mins
IV	1	1	60mins

#### Stand-by time

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people. When set to " $+\infty$ " mode, the low light is maintained until motion is detected.

Default Setting: 30mins

## **WARRANTY**

5 years limited warranty.

Specifications subject to change without notice.