

# mcPhilben Emergency Unit

## ES Series Die Formed Steel Emergency Unit



### Specifier's Reference

Project
Type
Model No.
Comments

### application

- The mcPhilben ES Series emergency units are designed for commercial or industrial use and are constructed of die-formed steel (20 gauge on units up to 100-watt units, and 18 gauge on 125-watt units to 250 watts). These units are available with lead calcium or nickel cadmium batteries that provide a minimum of 90 minutes of emergency lighting.

### codes and standards

- UL 924 listed
- UL damp location listed 32°F (0°C) to 104°F (40°C)
- NFPA 101, NEC, BOCA, OSHA
- IBC illumination standards
- City of Chicago approved (12 and 24 volt models)
- New York City Approved

### voltage input

- 120/277 VAC selectable input.

### battery

- Maintenance-free sealed lead calcium battery with 5-year life or maintenance-free sealed nickel cadmium with 10-year life.

### housing

- Models 50 watts and below are constructed of 20 gauge steel. Models over 50 Watts are constructed of 18 gauge steel with a 20 gauge cover with a white corrosion-resistant, epoxy powder coat finish. Custom colors available, consult factory. Easily mounted with key hole slots or shelf mounting. 1/4" toggle bolts are recommended for installation on 12V units. All housings have six available 1/2" conduit knockouts.

### advanced self-diagnostics (standard)

- The Advanced Self-Diagnostics charging system is microprocessor controlled with surge protection, brownout, AC lockout and low voltage disconnect features are standard on all models.

### self-testing diagnostics (optional)

- Optional diagnostics/charging circuitry perform a self-test monthly, and during the sixth and twelfth months. A one-minute or 90 minute test may be initiated via pushing the test button or using the handheld test device, SRT.

### lamp data

- Illumination is accomplished with two MR16 or PAR36 lamp heads mounted on the top or side of the enclosure. 75W units and above can accommodate up to three lamp heads mounted directly to the top, side or bottom of the housing. Accommodations for remote lamps are standard.

### mounting

- Optional custom mounting plates are available to facilitate wall mount installations. The use of the additional optional strapping kit allows the mounting plate to be fixed to columns, poles or I-beams.

### warranty

- Five year warranty on unit. (Lamps not included).

## Green Product Choice: ES6LD25WPRWA

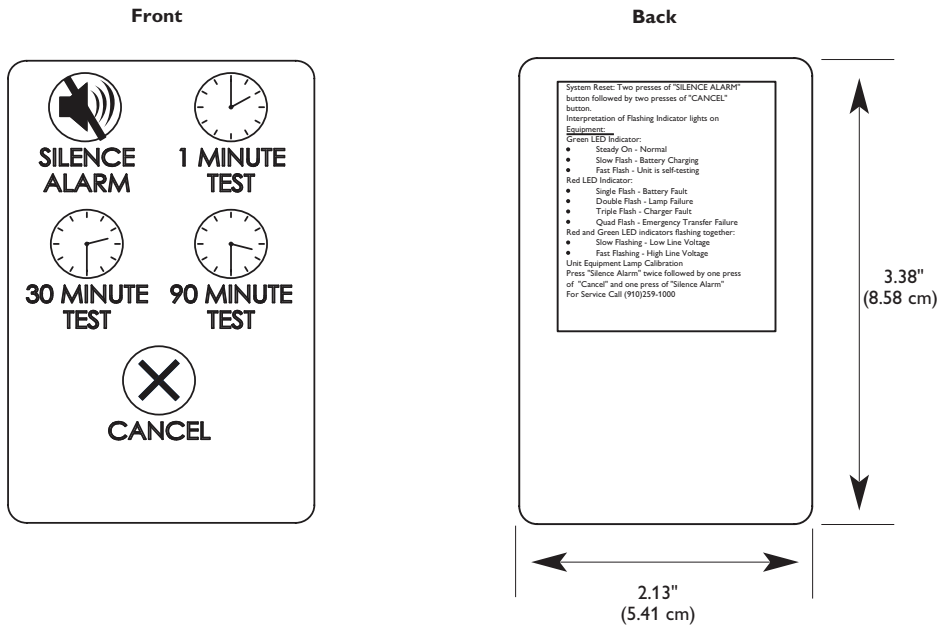
Operation		Lamp Heads <sup>3</sup>		
<b>ES6LD</b>	<b>ES12LD</b>	<b>BLANK</b> – No Heads		
25 – 25Watt	50 – 50Watt	<b>6Volt, Tungsten - Wedge Base</b>		
36 – 36Watt	75 – 75Watt	<b>PRWA</b> – 5.4Watt		
50 – 50Watt	100 – 100Watt	<b>PRWB</b> – 7.2Watt		
75 – 75Watt	150 – 150Watt	<b>PRWC</b> – 9.0Watt		
100 – 100Watt	200 – 200Watt	<b>6Volt, Tungsten - Sealed Beam</b>		
	250 – 250Watt	<b>PAWA</b> – 8Watt		
<b>ES6ND</b>	300 – 300Watt	<b>PAWB</b> – 18Watt		
25 – 25Watt	450 – 450Watt	<b>PAWC</b> – 25Watt		
50 – 50Watt		<b>12Volt, Tungsten - Wedge Base</b>		
75 – 75Watt		<b>PRWD</b> – 9Watt		
	<b>ES12ND</b>	<b>PRWE</b> – 12.5Watt		
	25 – 25Watt	<b>PRWF</b> – 17.9Watt		
	50 – 50Watt	<b>12Volt, Tungsten - Sealed Beam</b>		
	75 – 75Watt	<b>PAWE</b> – 12Watt		
	100 – 100Watt	<b>PAWF</b> – 18Watt		
	125 – 125Watt	<b>PAWG</b> – 25Watt		
	150 – 150Watt	<b>12Volt, MR16 Metal Lamp Heads</b>		
	<b>ES24LD</b>	<b>M20</b> – 20Watt, 40°		
	100 – 100Watt	<b>M35</b> – 35Watt, 25°		
	300 – 300Watt	<b>M35F</b> – 35Watt, 40° flood		
	450 – 450Watt	<b>M50</b> – 50Watt, 25°		
		<b>M50F</b> – 50Watt, 40° flood		
		<b>24Volt, Tungsten - Sealed Beam</b>		
		<b>HP</b> – 50Watt		
		<b>24Volt, MR16 Metal Lamp Heads</b>		
		<b>M450</b> – 50Watt, 40° flood		
		(Suggested heads are shown above.		
		For other heads refer to		
		Spec Sheet ERA6021)		
<b>Family</b>		<b>Options<sup>2</sup></b>		
<b>ES6LD</b> – 6 volt, Lead Calcium		<b>T</b> – Self-Testing Diagnostics		
<b>ES6ND</b> – 6 volt, Nicad		<b>TA</b> – Audible Self-Testing Diagnostics		
<b>ES12LD</b> – 12 volt, Lead Calcium		<b>V</b> – Voltmeter		
<b>ES12ND</b> – 12 volt, Nicad		<b>A</b> – Ammeter		
<b>ES24LD</b> – 24 volt, Lead Calcium		<b>TD</b> – Time Delay (15 min.)		
	<b>Housing Color</b>	<b>P1</b> – 120 VAC Power Switch		
	<b>W</b> – White	<b>P2</b> – 277 VAC Power Switch		
	<b>B</b> – Black	<b>EX</b> – Special Input Transformer (Specify voltage and frequency)		
		<b>F1</b> – 120 VAC Fuse		
		<b>F2</b> – 277 VAC Fuse		
		<b>BM</b> – Bottom mounted heads <sup>4</sup>		
		<b>DL</b> – Damp Location		
		<b>BD</b> – Battery disconnect switch		
		<b>SM</b> – Side mounted lamp heads <sup>1</sup>		
		<b>SP</b> – Specify paint (specify color)		

### Accessories

- SRT** – Infra-Red remote tester
- SSMP** – Mounting plate (25-50W)
- SMMP** – Mounting plate (75-150W)
- SLMP** – Mounting plate (200W & 450W)
- SKIT** – Strapping kit for use with mounting plates to affix to columns, poles and I-beams
- WG5** – Wire guard (25-150W)
- WG** – Wire guard (200W-450W)

### Footnotes

- <sup>1</sup>Not installed on enclosure at factory.
- <sup>2</sup>Some options may impact UL
- <sup>3</sup>Luminaires supplied with two heads standard. Leave blank for no heads. Add "3" for three heads (ex. 3PRWC) on 75W units and above only.
- <sup>4</sup>Not available on units less than 75W.



## ES Series Die-Formed Steel Emergency Unit with Adjustable Head

### Electrical Specifications

Input power requirements

#### 6V Lead Calcium 120 VAC 277 VAC

25-100 watt units - 0.125A 0.060A

#### 6V NiCad

25-50 watt units - 0.159A 0.065A

75 watt units - 0.223A 0.094A

#### 12V Lead Calcium 120 VAC 277 VAC

50-200 watt units - 0.393A 0.173A

250-450 watt units - 0.560A 0.236A

#### 12V NiCad

25-50 watt units - 0.200A 0.094A

75-150 watt units - 0.433A 0.188A

#### 24 volt

120 VAC = 0.741A

277 VAC = 0.312A

### Audible/Non-Audible Diagnostics

Advanced Self-diagnostics is equipped with an audible user interface confirmation standard.

However, the audible diagnostics feature is a selectable option. Standard diagnostics equipment offers visual verification of the equipment readiness through the flashing sequence of the RED LED in the following manner:

Fault condition status, number of RED flashes:

1 X - Battery Fault

2 X - Lamp Failure

3 X - Charger Fault

4 X - Transfer Fault

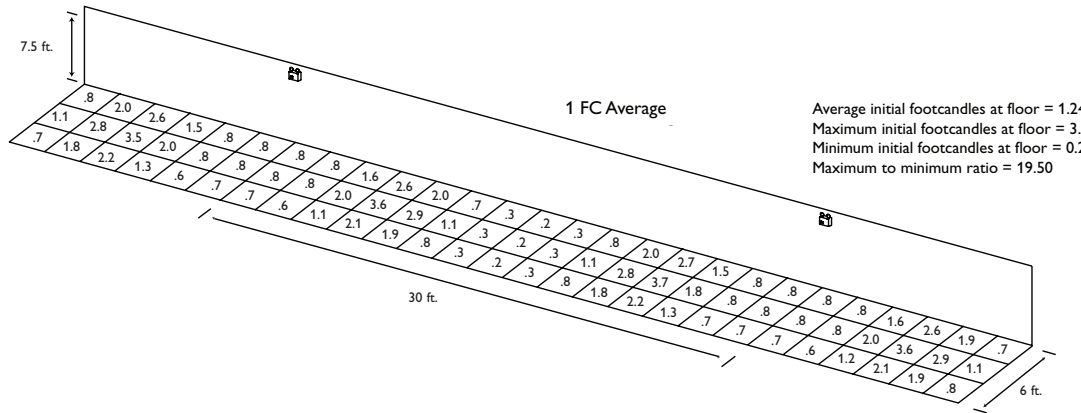
Both RED and GREEN LED's fast toggle - AC line over-voltage

Both RED and GREEN LED's slow toggle - AC line under-voltage

## Dimensions

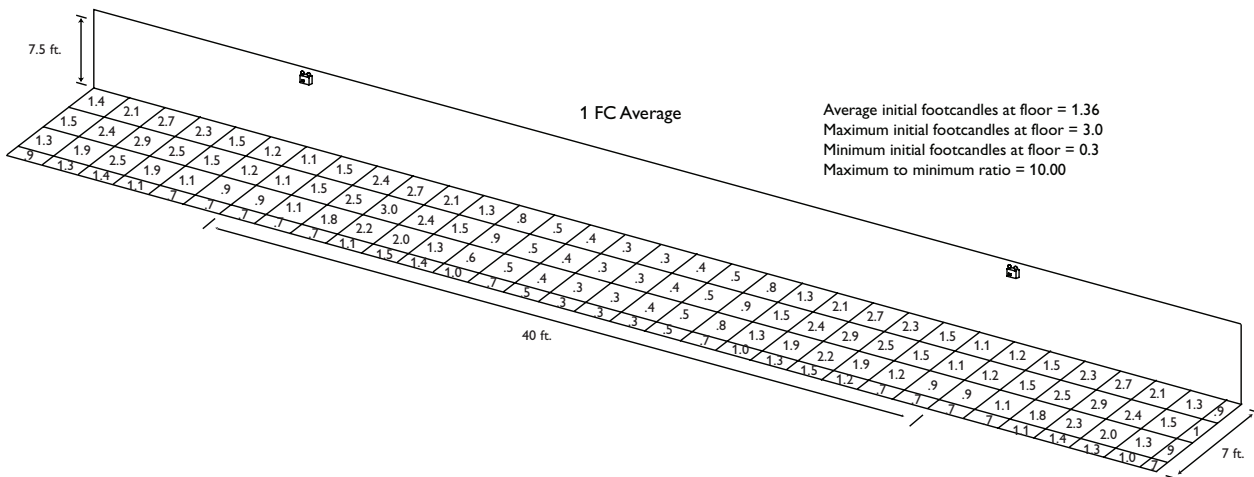
Optics\* (IES formatted files are available on-line)  
Wall mounted 7.5' AFF, 6V 12W PAR 36 Halogen Lamps (MCJ)

\*The optics layout shown is intended to be used as a reference only. Standard reflectances used were 80/50/20. Chloride Systems is not responsible for site specific conditions that may alter the results.



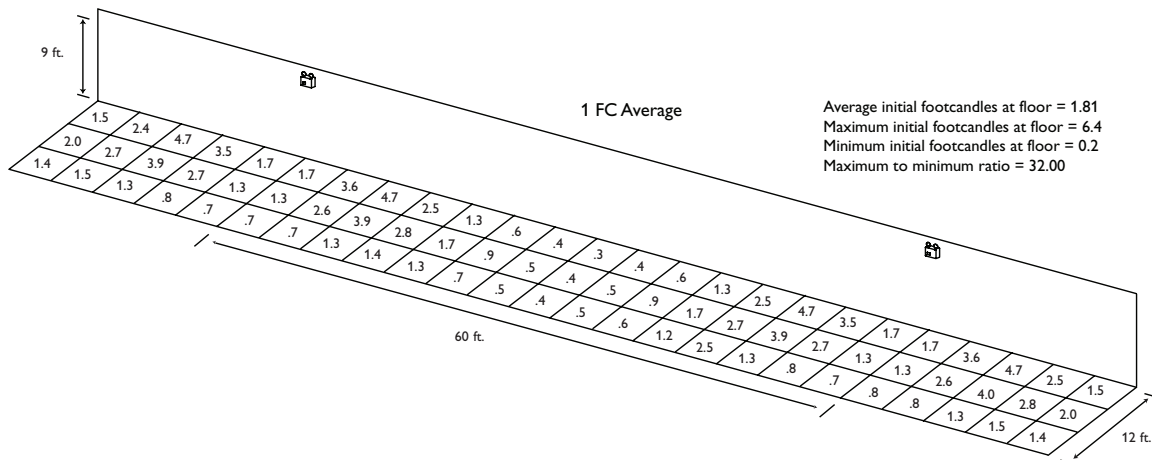
Optics\* (IES formatted files are available on-line)  
Wall mounted 7.5' AFF, 12V 20W MR16 Lamps (M20)

\*The optics layout shown is intended to be used as a reference only. Standard reflectances used were 80/50/20. Chloride Systems is not responsible for site specific conditions that may alter the results.



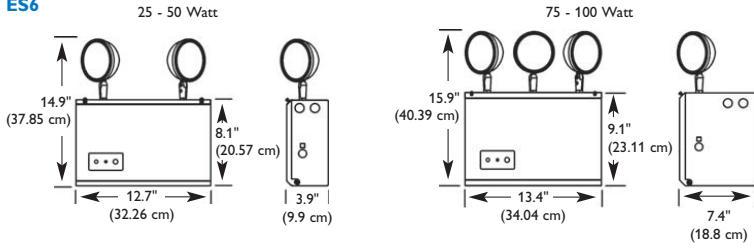
Optics\* (IES formatted files are available on-line)  
Wall mounted 9' AFF, 24V 50W MR16 Lamps (M450)

\*The optics layout shown is intended to be used as a reference only. Standard reflectances used were 80/50/20. Chloride Systems is not responsible for site specific conditions that may alter the results.

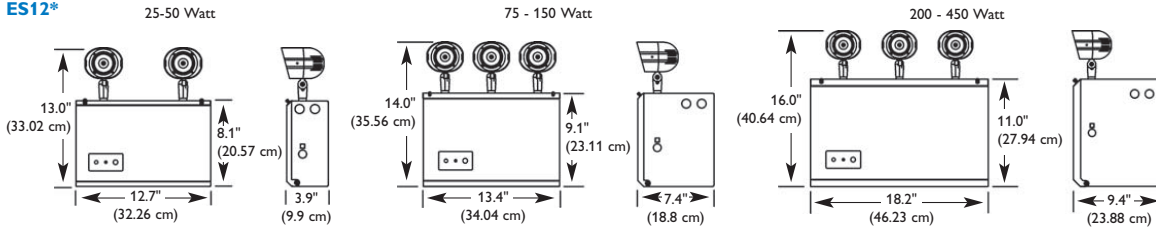


**Dimensions**

**ES6**

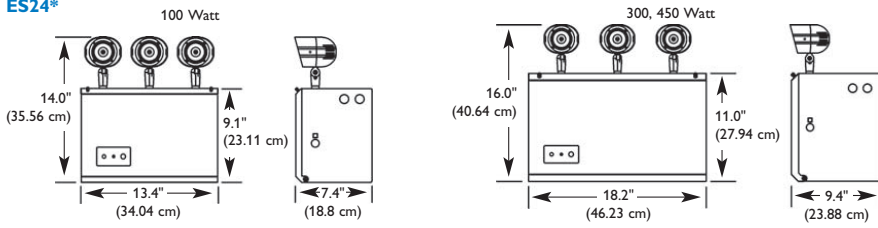


**ES12\***



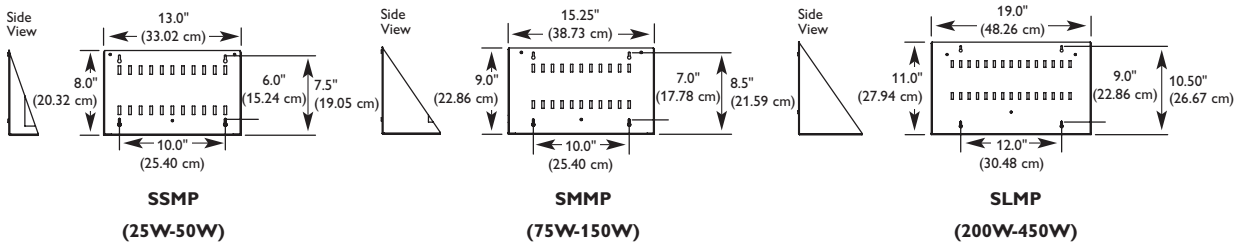
\*Optional PAR36 sealed beam lamps add 1.9" to overall height

**ES24\***



\*Optional PAR36 sealed beam lamps add 1.9" to overall height

**Mounting Plates**



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 776 South Green Street • Tupelo, MS 38804  
 p. 800.234.1890 • f. 662.841.5501 • www.daybrite.com  
 Canadian Division  
 189 Bullock Drive • Markham, Ontario L3P 1W4  
 p. 905.294.9570 • f. 905.294.9811

Contact Factory for Additional Configurations.  
 Specifications are subject to change without notice.  
 Consult website for latest version of this spec sheet.

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)

