

Lightalarms



**Chicago Offering
Lights the way to safety**

by ABB

City of Chicago – Approved

Lightalarms® is proud to present its complete range of Chicago-Approved life safety equipment using LED light source. A leading manufacturer of emergency lighting and exit signage, Lightalarms® has been supplying innovative, reliable emergency lighting in the U.S. since 1953 and is pleased to continue this tradition with our newly-expanded Chicago LED product offering.

Setting the standard




When it comes to life safety, there can be no compromise. The Lightalarms® products on the following pages are designed, manufactured and tested to meet some of the most demanding standards in North America—Chicago standards.

The complete line of Lightalarms® life safety products meets or exceeds the requirements of UL 924, NFPA 101, Life Safety Code, NEC and ICC standards. In addition, you will now find UL approved equipment, for use in “City of Chicago Environmental Airspaces” (CCEA).

This mark is recognized by the Chicago Department of Buildings, Electrical Division. From high-end architectural to commercial installations, for new construction and retrofit projects, there’s a Lightalarms® product to meet your specifications.

Lightalarms® – lighting the way to safety since 1953.

Table of contents

	
High output MR16 LED 2	LED emergency lighting 3
	
CH LED Series 4	CH-Flat LED Series 6
	
CHE-LED Series 8	CHC-2LED Series 9
	
CHB-2LED Series 10	ELF612D/LED Series 11
	
TBR-CH Series 12	RD-CH Series 14

High output MR16 LED

Emergency lighting


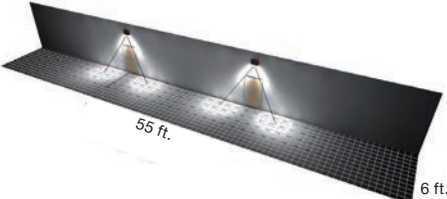

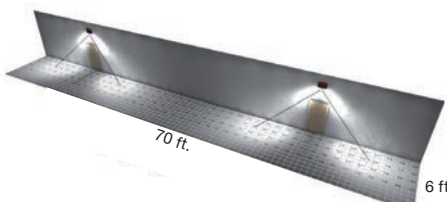

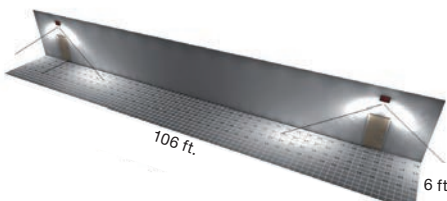
MR16 LED illumination

With the remarkable technology development in the last decade, the lightemitting diode (LED) is becoming the preferred solution in lighting applications. The emergency lighting industry is no exception: today virtually every new product introduced to market includes “white light” light LEDs for emergency illumination. Extremely efficient and long-lasting, LED lamps become the natural alternative to incandescent lamps due to three main advantages:

- **Lamp efficacy:** 50–100 lumens per watt compared to 15–30 lumens per watt of the best halogen lamp. Allowing for smaller batteries and units and/or remote capacity
- **Operational life:** 30,000+ hours, equivalent to a lifetime warranty in emergency lighting.
- **Lower lamp temperature:** 80–120°C (176–248°F) is a huge benefit for lighting in hazardous locations.

MR16 LED lamp benefits

- Reduces total cost of ownership, uses few fixture due to superior illumination, thus reducing installations cost and future maintenance of the entire system.
- UL-recognized components.
- Available for standard battery voltages 6V, 12V and 24V as well as 120V operation.
- Energy-efficient LED MR16 lamp provides equivalent lighting performance to a much higher watt halogen MR16 lamp.
- Reduces required battery capacity by 75%, for battery units and remote heads.
- Small profile, compact white lighting is ideal for architectural applications.
- Typical 30,000 hours of operational life.
- Vibration-resistant LED stands up to industrial environments.
- Ideal for indoor and outdoor use.

Lamp	Description	Photometry
	<p>200-220 Lumen 4W MR16 LED</p> <p>Leading the technology trend, Lightalarms® offers a complete series of 4W MR16 LED lamps available for all the standard battery voltages: 6V, 12V, 24V and 120V. With up to 30,000 hours of operational life and a luminous flux of typically 200 to 220 lumens, they are available with most emergency heads designed to hold an MR16 lamp and meet the majority of illumination specifications. For example: one pair of LED emergency heads installed at a height of 7.5ft illuminates a 6ft by 55ft path of egress.</p>	 <p>55-ft. path of egress 2 X 4W MR16 LED Based on an average of 1 foot candle</p>
	<p>340 Lumen 5W MR16 LED</p> <p>Keeping pace with technology, in 2012 we introduced a 12V-5W MR16 LED lamp. With a typical luminous flux of 340 lumens, this lamp has the same lighting performance as a 20W high-output halogen MR16. A twin emergency head installed at a height of 7.5ft illuminates 70ft path of egress.</p>	 <p>70-ft. path of egress 2 X 5W MR16 LED Based on an average of 1 foot candle</p>
	<p>540-590 Lumen 6W MR16 LED</p> <p>A 6W MR16 LED lamp delivers up to 590 lumens for an average spacing in emergency lighting of 106 feet with an efficacy of 98.3 Lm/w, it is over 6 times the efficacy of a MR16 35W halogen with similar light output. This lamp can deliver the highest linear foot of illumination per watt on a path of egress! (spacing in feet / watt) 8.83ft compare to 1.37ft for a MR16 35W.</p>	 <p>106-ft. path of egress 2 X 6W MR16 LED Based on an average of 1 foot candle</p>

High output MR16 LED

Emergency lighting

Case study: Fewer MR16 LED units required


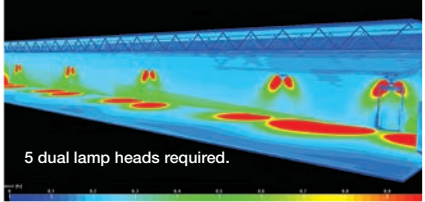

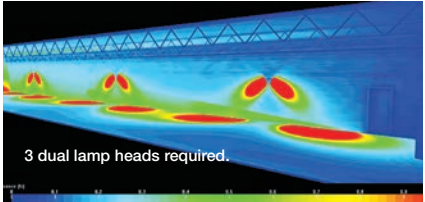

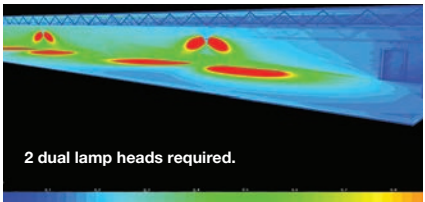
Emergency lighting units with MR16 LED lamps provide the same illumination at floor level using significantly less units.

- Reduced installation costs, less product needed and labor.
- Reduced energy costs, keeping batteries charged at full capacity to be ready to respond to an emergency situation at any time.

- Reduced maintenance and testing cost, less units to maintain and test in the emergency lighting system.
- Reduced lamp replacement cost, LED lamps have a 30,000+ hour lamp life compare to only a few hundred hour typical with incandescent lamps.
- Reduced environmental impact, less product materials, less batteries, less transportation, less packaging, less labor, less waste.

Compare

Where the building code requires an average of 1 foot-candle and a minimum of 0.1 foot-candle at floor level along the path of egress on a 150' x 9' x 9' corridor with an egress door at one end, a 150' x 6' path of egress, and a 7.5' unit mounting height.

Series	Thermal imagery – 150 foot hallway		MR16 LED lamps																
RD-CH Battery Series 4W LED		 5 dual lamp heads required.	4W MR16 LED lamps Same standard emergency lighting units with 4W MR16 LED lamps requires a total of 5 double-head units or remotes <table border="1"> <thead> <tr> <th>Lamp suffix</th> <th>Voltage</th> <th>Wattage</th> <th>Lumens</th> </tr> </thead> <tbody> <tr> <td>LD1</td> <td>6</td> <td>4</td> <td>199</td> </tr> <tr> <td>LD7</td> <td>12</td> <td>4</td> <td>220</td> </tr> <tr> <td>LD25</td> <td>120</td> <td>4</td> <td>230</td> </tr> </tbody> </table>	Lamp suffix	Voltage	Wattage	Lumens	LD1	6	4	199	LD7	12	4	220	LD25	120	4	230
Lamp suffix	Voltage	Wattage	Lumens																
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LD7	12	4	220																
LD25	120	4	230																
RD-CH Battery Series 5W LED		 3 dual lamp heads required.	5W MR16 LED lamps Same standard emergency lighting units with 5W MR16 LED lamps requires a total of 3 double-head units or remotes <table border="1"> <thead> <tr> <th>Lamp suffix</th> <th>Voltage</th> <th>Wattage</th> <th>Lumens</th> </tr> </thead> <tbody> <tr> <td>LD9</td> <td>12</td> <td>5</td> <td>340</td> </tr> </tbody> </table>	Lamp suffix	Voltage	Wattage	Lumens	LD9	12	5	340								
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RD-CH Battery Series 6W LED		 2 dual lamp heads required.	6W MR16 LED lamps Same standard emergency lighting units with 6W MR16 LED lamps requires a total of 2 double-head units or remotes <table border="1"> <thead> <tr> <th>Lamp suffix</th> <th>Voltage</th> <th>Wattage</th> <th>Lumens</th> </tr> </thead> <tbody> <tr> <td>LD10</td> <td>12</td> <td>6</td> <td>540</td> </tr> </tbody> </table>	Lamp suffix	Voltage	Wattage	Lumens	LD10	12	6	540								
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LD10	12	6	540																

CH LED Series

Die-cast aluminum universal trim white LED edge-lit exit sign



Designed for elegant interiors, this premium die-cast aluminum exit sign uses a modular design for mounting flexibility.

Construction

- Face plate: Virgin acrylic face plate is thin, silk-screened to provide a flawless legend. Face plates are available with red letters on a white background
- Housing: Die-cast aluminum back box, trim ring, trim plate and canopy
- U-shaped clear acrylic legend panel features laser-etched letters and chevrons

Mounting

- All mounting configurations use the same basic components. Inserting a trim ring allows for recessed mounting on walls or ceilings. Applying a canopy allows for surface mounting on ceilings or walls as back or end mount.

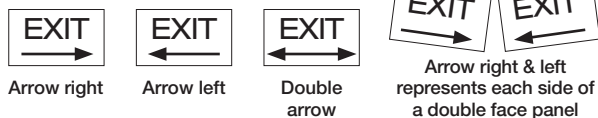
Finishes

- Standard finish is brushed aluminum with other finishes available as an option

Chevrons

- Silk screened as specified

Arrow (chevron) designation



NOTE: Wording and chevrons not to scale. For illustration purposes only.

LEDS

- White LED light source, 10-year life expectancy

Self-diagnostics

- Self-powered models available with or without Improved Diagnostics

Special wording panels

- Available. Contact your sales representative with your design requirements

Approvals

- Listed to UL 924 Standards
- City of Chicago Approved

Warranty

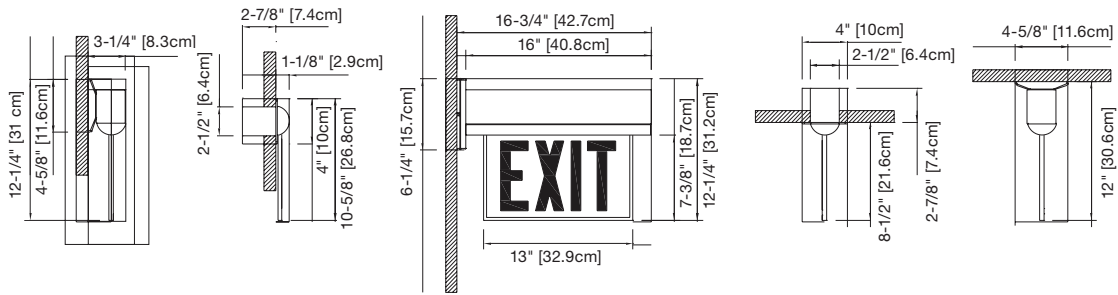
- Five-year full warranty (subject to proper installation and maintenance)
Detailed warranty terms located at: www.lightalarms.com



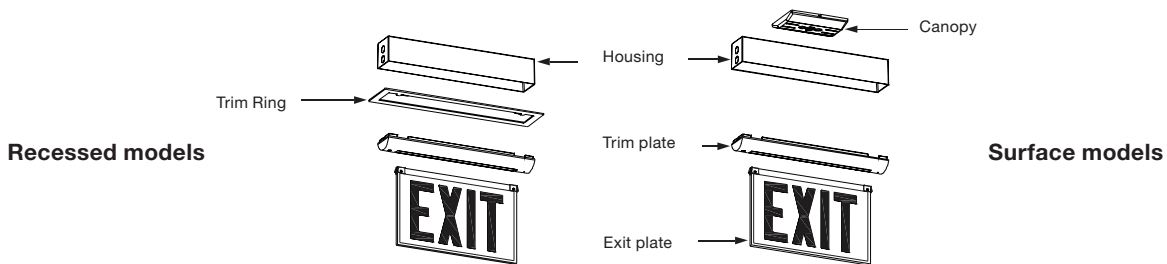
Power consumption chart

Model	AC specs	DC specs
AC-only	120-277VAC (Less than 2.5W)	-
AC/DC	120-277VAC (Less than 2.5W)	6 to 24VDC (Less than 2.5W)
Self-powered	120-277VAC (Less than 3.5W)	Nickel-cadmium battery (2 hours)
Self-powered diagnostic	120-277VAC (Less than 3.5W)	Nickel-cadmium battery (2 hours)

Dimensions (Dimensions are approximate and subject to change):



*ADD 1-1/2" TO HEIGHT OF UNIT WHEN ORDERING PANEL WITH ARROW



Accessories (Order as a separate item)

Description	Product code
Pendant, white	PW-*
Pendant, black	PB-*
Pendant, gray	PA-*

*Specify white (WT) or black (BK) housing

Backbox (Order as a separate item)

Description	Product code
Backbox kit white	BBKTS-WT-L
Backbox kit black	BBKTS-BK-L
Backbox kit brushed aluminum	BBKTS-BA-L
Backbox kit chrome	BBKTS-CH-L
Backbox kit dark bronze	BBKTS-DB-L
Backbox kit polished brass	BBKTS-PB-L

Ordering format

Custom spec	Series	Color of trim plate	Panel type	Trim plate	Legend style	Options
CH = City of Chicago	SLD = AC-only SLDC = AC/DC - remote 6-24V SLD2 = AC-dual circuit SPLD = Self-powered SPLDD = Self-powered diagnostic	A = Brushed aluminum W = White B = Black DB = Dark bronze (painted) PB = Polished brass CH = Polished chrome	Blank = Red-white Chicago legend	D = Dome shape P = Pyramid shape	Single face panels #2A= STAIRS (No arrows) #3= EXIT (No arrows) #5A= STAIRS (Arrow right →) #6= EXIT (Arrow right →) #8A= STAIRS (Arrow left ←) #9= EXIT (Arrow left ←) #11A= STAIRS (Double arrows ↔) #12= EXIT (Double arrows ↔) Double face panels #17A= STAIRS (No arrows) #18= EXIT (No arrows) #23A= STAIRS (Double arrows ↔) #24= EXIT (Double arrows ↔) #20A= STAIRS (Arrow left ← and arrow right →, one arrow on each side) #21= EXIT (Arrow left ← and arrow right →, one arrow on each side)	DL = Damp locations Housing shipped less panel LP = Less panel, (shipped separately)

Example: CHSLD2AD#2A

CH-Flat LED Series

Die-cast aluminum flat trim plate white LED edge-lit exit sign with recessed ceiling mount



This elegant edge-lit exit sign complements modern décor. In high visibility areas, the CH-Flat LED Series exit sign provides elegant designer details including recessed ceiling mount design, and brushed aluminum trim plate.

Construction

- Designed to achieve superior visual clarity and performance with an LED lightsource. LED sensitive inks are formulated to provide a rich red color on white background
- Clear acrylic panel provides optimum light transmission. Illumination is 100% in both AC and emergency mode
- Housing: Die-Cast aluminum trim ring, trim plate and canopy

Mounting

- Housing: Fully-recessed, 20-gauge galvanized steel back-box; equipped with hanger bars for installation between joists or a suspended ceiling

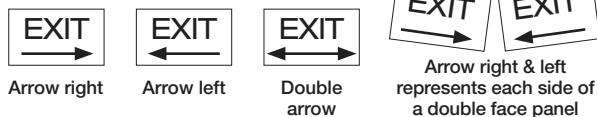
Finishes

- Standard finish is brushed aluminum with other finishes available as an option

Chevrons

- Silk screened as specified

Arrow (chevron) designation



NOTE: Wording and chevrons not to scale. For illustration purposes only.

LEDS

- White LED light source, 10-year life expectancy

Self-diagnostics

- Self-powered models available with or without Improved Diagnostics

Special wording

- Available. Contact your sales representative with your design requirements

Approvals

- Listed to UL 924 Standards
- City of Chicago Approved

Warranty

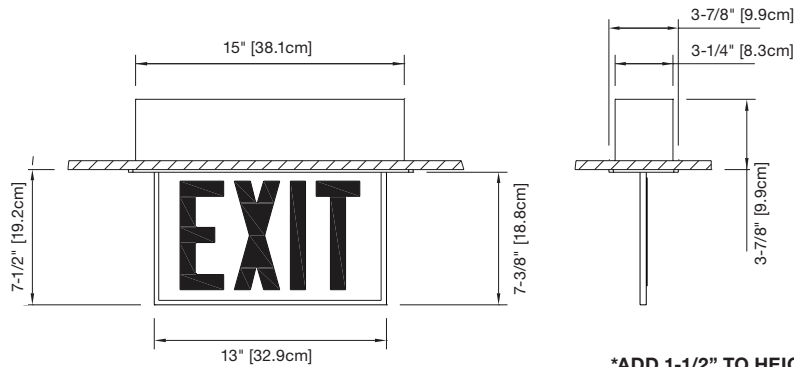
- Five-year full warranty (subject to proper installation and maintenance)
Detailed warranty terms located at: www.lightalarms.com



Power consumption chart

Model	AC specs	DC specs
AC-only	120-277VAC (Less than 2.5W)	-
AC/DC	120-277VAC (Less than 2.5W)	6 to 24VDC (Less than 2.5W)
Self-powered	120-277VAC (Less than 3.5W)	Nickel-cadmium battery (2 hours)
Self-powered diagnostic	120-277VAC (Less than 3.5W)	Nickel-cadmium battery (2 hours)

Dimensions (Dimensions are approximate and subject to change):



***ADD 1-1/2" TO HEIGHT OF UNIT WHEN ORDERING PANEL WITH ARROW**

Accessories (Order as a separate item)

Description	Product code
Special wording	Contact your sales representative
Two 27-inch adjustable bar hangers*	TBH

*Bar hangers supplied with unit, order as replacement only

Backbox (Order as a separate item)

Description	Product code
Backbox kit flat trim Chicago	BBKTRCH-L

Ordering format

Custom spec	Series	Color of trim plate	Panel type	Trim plate	Legend style	Options
CH = City of Chicago	SLD = AC-Only SLDC = AC/DC - Remote 6-24V SLD2 = AC-Dual Circuit SPLD = Self-Powered SPLDD = Self-Powered Diagnostic	A = Brushed aluminum W = White B = Black DB = Dark bronze (painted) PB = Polished brass CH = Polished chrome	Blank = Red-white Chicago legend	F = Flat	Single face panels #2A = STAIRS (No arrows) #3 = EXIT (No arrows) #5A = STAIRS (Arrow right →) #6 = EXIT (Arrow right →) #8A = STAIRS (Arrow left ←) #9 = EXIT (Arrow left ←) #11A = STAIRS (Double arrows ↔) #12 = EXIT (Double arrows ↔)	DL = Damp locations Housing shipped less panel LP = Less panel, (shipped separately)
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Example: CHSLDWF#12

CHE-LED Series

City of Chicago Approved steel LED exit sign



For surface mount, wall, end or ceiling installations. Available in single or double face models.

Housing

- Constructed of 20-gauge steel housing with glass panels
- Cabinet offered in mist white
- White LED lighting source
- Choice of single or double face available

Mounting

- Canopy supplied for top or end-mount
- Universal knockout pattern on back plate for wall mount

Battery

- 4.8V long-life, maintenance-free rechargeable nickel-cadmium with self-powered model

Electronics

- Dual voltage 120/277, 60Hz
- Automatic solid-state charger recharges battery in 24 hours
- A 2 hour run time in emergency mode

Approvals

- UL listed for damp location 68°F to 122°F (20°C to 50°C)
- Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
- City of Chicago Approved

Warranty

- Three-year full warranty (subject to proper installation and maintenance)
Detailed warranty terms located at: www.lightalarms.com

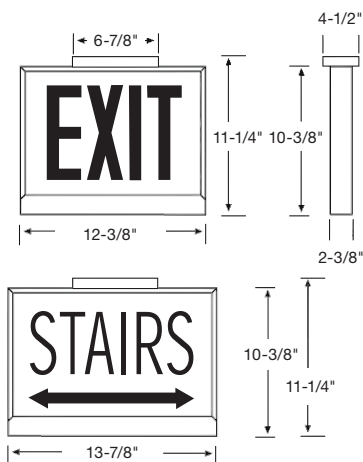


Ordering format

Series	Legend color	Legend style
CHE = AC-only CHEN = Self-powered (nickel-cadmium battery)	R = Red on white	Single face panels #2A = STAIRS (No arrows) #3 = EXIT (No arrows) #5A = STAIRS (Arrow right →) #6 = EXIT (Arrow right →) #8A = STAIRS (Arrow left ←) #9 = EXIT (Arrow left ←) #11A = STAIRS (Double arrows ↔) #12 = EXIT (Double arrows ↔)
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Example: CHENR#2A

Dimensions (Dimensions are approximate and subject to change):



Power consumption chart

Model	AC specs	DC specs
CHE	120/277VAC, 60HZ 5W 0.1A/0.05A	-
CHEN	120/277VAC, 60HZ 5W 0.1A/0.05A	Ni-Cd Min. 120 minutes

Arrow (chevron) designation



NOTE: Wording and chevrons not to scale. For illustration purposes only.

CHE-2LED Series

City of Chicago approved steel LED combination unit



For top or end-mount installations. Available in single or double face models. Each unit comes with two adjustable 6V-5W LED heads.

Housing

- Constructed of 20-gauge steel housing with glass panels
- Cabinet offered in mist white
- White LED lighting source
- Choice of single or double face available

Mounting

- Canopy supplied for top or end-mount
- Universal knockout pattern on back plate for wall mount

Heads

- Each unit comes with two adjustable 6V-5W LED heads
- Each unit provides 280 lumens

Battery

- 6V lead-calcium, maintenance-free, rechargeable battery

Options

- Available with 10W remote capacity on the CHC-2LEDRC model

Electronics

- Low voltage disconnect
- Dual voltage 120/277, 60Hz
- LED indicator light and push-to-test switch

Power consumption chart

Model	AC specs	DC specs
CHC-2LED	120VAC, 60Hz, 0.12A	12W
CHC-2LED	277VAC, 60Hz, 0.06A	13W
CHC-2LED-RC	120VAC, 60Hz, 0.12A	12W
CHC-2LED-RC	277VAC, 60Hz, 0.06A	13W

Lead-calcium Minimum 120 minutes

Ordering format

Series	Heads	Legend color	Legend style	Options	
CHC	-2LED= 2 steel round LED heads	R= Red on white	Single face panels #2A= STAIRS (No arrows) #3= EXIT (No arrows) #5A= STAIRS (Arrow right →) #6= EXIT (Arrow right →) #8A= STAIRS (Arrow left ←) #9= EXIT (Arrow left ←) #11A= STAIRS (Double arrows ↔) #12= EXIT (Double arrows ↔)	Double face panels #17A= STAIRS (No arrows) #18= EXIT (No arrows) #23A= STAIRS (Double arrows ↔) #24= EXIT (Double arrows ↔) #20A= STAIRS (Arrow left ← and arrow right →, one arrow on each side) #21= EXIT (Arrow left ← and arrow right →, one arrow on each side)	Blank= No option RC= 6V-10W remote capacity ¹

Example: CHC-2LEDR#2A

- Automatic solid-state charger recharges battery in 24 hours
- A 2 hour run time in emergency mode

Approvals

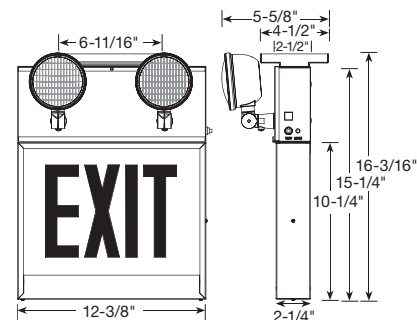
- UL listed for damp location 68°F to 122°F (20°C to 50°C)
- Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
- Meets City of Chicago requirements



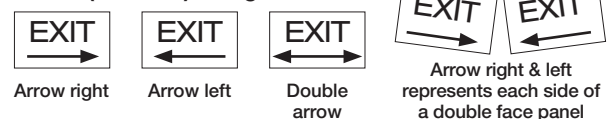
Warranty

- Three-year full warranty (subject to proper installation and maintenance)
- Detailed warranty terms located at: www.lightalarms.com

Dimensions (Dimensions are approximate and subject to change):



Arrow (chevron) designation



NOTE: Wording and chevrons not to scale. For illustration purposes only.

¹Compatible only with ELF612/LED remote. One double dedicated remote.

CHB-2LED Series

Steel LED battery unit



Steel housing unit comes with two adjustable 6V-5.3W LED heads and a lead-calcium battery.

Housing

- Constructed of 20-gauge steel
- Cabinet offered in mist white

Mounting

- Knockouts on the back of unit for wall mount
- Side and top knockouts for conduit

Heads

- Each unit comes with two adjustable 6V-5.3W LED heads
- Each unit provides 280 lumens

Battery

- 6V sealed lead-calcium, maintenance-free, rechargeable battery

Options

- Optional 10W remote capacity available on the CCB-2LEDRC model

Electronics

- Low voltage disconnect
- Dual voltage 120/277, 60Hz
- LED indicator light and push-to-test switch
- Automatic solid-state charger recharges battery in 24 hours
- A 2 hour run time in emergency mode

Approvals

- UL listed for damp location 68°F to 122°F (20°C to 50°C)
- Meets UL 924, NFPA 101 Life safety code, NEC, OSHA, local and state codes
- Meets City of Chicago requirements

Warranty

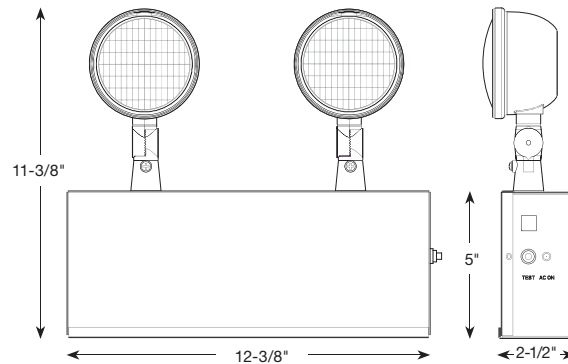
- Three-year full warranty (subject to proper installation and maintenance)
- Detailed warranty terms located at: www.lightalarms.com



Ordering format

Series	Lamp	Options
CHB	-2LED= Double Steel Round LED	Blank= No Option RC= 6V-10W Remote Capacity ¹
Example: CHB-2LED		

Dimensions (Dimensions are approximate and subject to change):



Power consumption chart

Model	AC specs	DC specs
CHB-2LED	120VAC, 60HZ, 0.08A	8.4W
CHB-2LED	277VAC, 60HZ, 0.04A	9.4W
CHB-2LED-RC	120VAC, 60HZ, 0.09A	8.7W
CHB-2LED-RC	277VAC, 60HZ, 0.05A	10W

Lead-calcium Minimum 120 minutes

¹Compatible only with ELF612/LED remote. One double dedicated remote.

ELF612D/LED Series

Thermoplastic square LED indoor or outdoor remote unit



Thermoplastic square LED is suitable for wet locations and can be mounted on a wall or ceiling.

Housing

- Thermoplastic housing and aluminum canopy with fully adjustable LED heads
- Suitable for indoor or outdoor application
- Suitable for wet location applications
- Wall or ceiling mount
- Available only in gray double head configuration
- Universal DC voltage: 3.6V, 6V or 12V operation
- Each head draws 1.5W

Approvals

- UL 924 listed
- Meets City of Chicago requirements

Warranty

- Three-year full warranty (subject to proper installation and maintenance)
- Detailed warranty terms located at: www.lightalarms.com



Accessories (Order as a separate item)

Description	Product code
Wire guard (heads in any position) wall mount	WG10-L

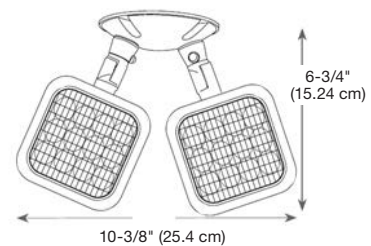
Ordering format

Series	Head type
ELF612D	/LED= Thermoplastic square LED head

Example: ELF612D/LED

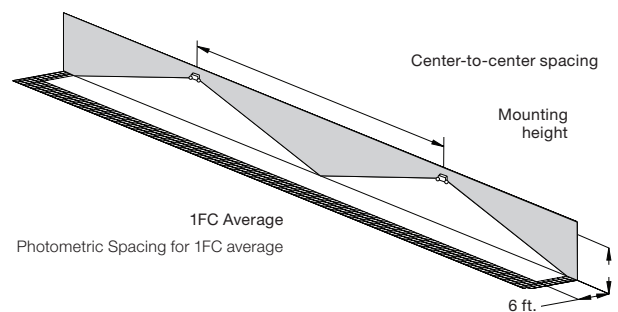
Dimensions

(Dimensions are approximate and subject to change)



Photometric performance

Lamp	Spacing center-to-center (feet)	
	7 feet mounting height	15 feet mounting height
ELF612	13	4'



TBR-CH Series

Recessed steel housing lead-calcium battery



This emergency light is designed for easy access to internal components and has a fully recessed housing that blends in for architectural unity.

Housing

- 20 gauge steel housing designed for easy access to internal components
- Corrosion-resistant baked enamel mist white finish standard, black optional
- Provision for mounting up to 3 lighting heads

Mounting

- Recessed T-bar ceiling mount; lay-in installation for grid ceiling only

Electronics

- Automatic, temperature-compensated, pulse-type charger
- High capacity, automatic, dust-tight instantaneous transfer relay
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection
- Battery lock-out prevents battery discharge during installation
- Fused output circuit

Improved Diagnostics option

- Units equipped with Improved Diagnostics shall self-test, by simulating a power failure, in accordance with NFPA101, Life Safety Code one minute monthly, 30 minutes every six months and 90 minutes annually.

Controls

- Red charger monitor LED indicates charging of the battery
- Amber AC-ON LED indicates AC power is on
- Momentary test switch allows for quick operational check of entire system

Sealed maintenance-free battery

- 12V lead-calcium battery

Approval

- UL 924 listed
- Meets City of Chicago requirements

Warranty (subject to proper installation and maintenance)

- Unit has a three-year full warranty (excluding lamps and fuses)
 - Lead-calcium battery has a three-year full, plus three-year pro-rata warranty
- Detailed warranty terms located at: www.lightalarms.com



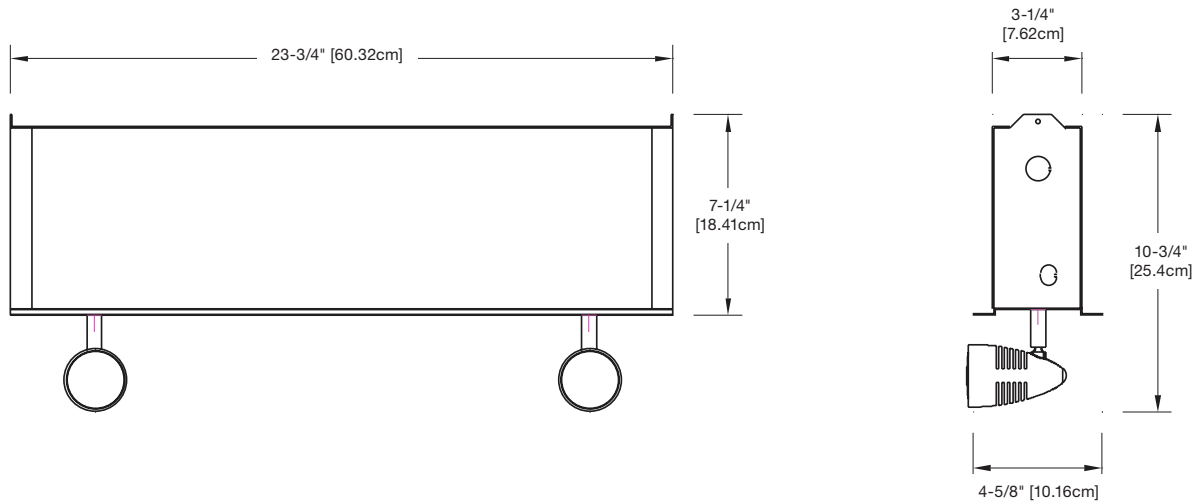
Power consumption chart

Series	Battery type	DC Voltage	DC specs				AC specs	
			Battery capacity (in watts) ¹				Units dual voltage ²	Current maximum
			90 Mins	2 Hrs	3 Hrs	4 Hrs		
T12BRC2	Lead-calcium	12V	54	37	28	21	120VAC / 277VAC	0.3A / 0.15A

¹National Electrical Code specification

²All units 120/277 dual voltage, information based on wiring to specific voltage type

Dimensions (Dimensions are approximate and subject to change):



Accessories (Order as a separate item)

Description	Product code
Remote test switch (metal faceplate)	PSW
Remote test switch (plastic faceplate)	PSW1

Ordering format

# of heads	Series/battery/ capacity	Head style	Series	Lamp type	Options
Blank = No heads 1= 1 head 2= 2 heads 3= 3 heads	Lead-calcium battery T12BRC2 = 12V-54W	/D1 = DR1130 (MR16, Metal)	CH = City of Chicago approved	LD7 = 12V-4W, MR16 LED LD9 = 12V-5W, MR16 LED LD10 = 12V-6W, MR16 LED	Blank = Mist white housing, no options -B = Black housing -ID = Improved Diagnostics (audible)

Example: 2TBRC2/DR1130LD9

RD-CH Series

Recessed steel housing lead-calcium battery unit



A decorator-friendly low-profile ceiling or wall-mount emergency light to suit any décor.

Housing

- 20 gauge steel housing designed for easy access to internal components
- Corrosion-resistant baked enamel mist white finish standard, black optional
- Provision for mounting up to 2 lighting heads

Mounting

- Ceiling or wall mount; mounting brackets included for lay-in installation in T-bar grid ceiling as well as dry wall

Electronics

- Automatic, temperature-compensated, pulse-type charger
- High capacity, automatic, dust-tight instantaneous transfer relay
- Low voltage disconnect prevents over discharge of battery
- Automatic brownout protection is provided
- Battery lock-out prevents battery discharge during installation
- Fused output circuit

Improved Diagnostics option

- Units equipped with Improved Diagnostics shall self-test, by simulating a power failure, in accordance with NFPA101, Life Safety Code one minute monthly, 30 minutes every six months and 90 minutes annually.

Controls

- Red charger monitor LED indicates charging of the battery
- Amber AC-ON LED indicates AC power is on
- Momentary test switch allows for quick operational check of entire system

Sealed maintenance-free battery

- 2V lead-calcium battery

Approvals

- UL 924 standard
- Meets City of Chicago requirements

Warranty (subject to proper installation and maintenance)

- Unit has a three-year full warranty (excluding lamps and fuses)
 - Lead-calcium battery has a three year full, plus three year pro-rata warranty
- Detailed warranty terms located at: www.lightalarms.com



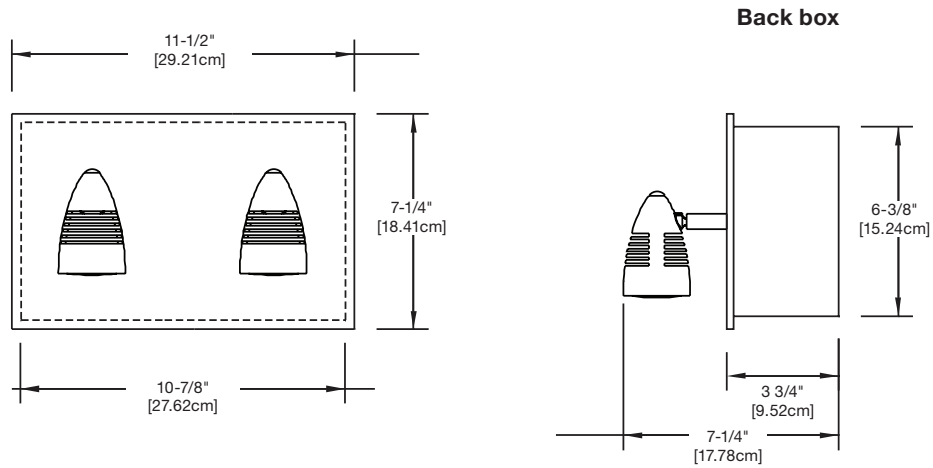
Power consumption chart

Series	Battery type	DC Voltage	DC specs				Units dual voltage ²	AC specs
			Battery capacity (in watts) ¹					
			90 Mins	2 Hrs	3 Hrs	4 Hrs		
RD12M3	Lead-Calcium	12V	36	25	20	14	120VAC / 277VAC	0.3A / 0.15A

¹National Electrical Code specification

²All units 120/277 dual voltage, information based on wiring to specific voltage type

Dimensions (Dimensions are approximate and subject to change):



Accessories (Order as a separate item)

Description	Product code
Wire guard (DR1130 heads)	WG6-L
Remote test switch (metal faceplate)	PSW
Remote test switch (plastic faceplate)	PSW1

Ordering format

# of heads	Series/capacity	Head style	Series	Lamp type	Options
Blank = No heads 1= 1 head 2= 2 heads 3= 3 heads	Lead-calcium battery RD12M3 = 12V-36W	/D1 = DR1130 (MR16, Metal)	CH = City of Chicago approved	LD7 = 12V-4W, MR16 LED LD9 = 12V-5W, MR16 LED LD10 = 12V-6W, MR16 LED	Blank = Mist white housing, no options -B = Black housing -ID = Improved Diagnostics (audible)

Example: 2RD6M2/LHK



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