



# CRR Exit Sign

Crystal Recessed Edge-Lit Exit



PROJECT: \_\_\_\_\_  
 FIXTURE TYPE: \_\_\_\_\_  
 LOCATION: \_\_\_\_\_  
 CONTACT/PHONE: \_\_\_\_\_



**TOP MT  
RECESSED**



**STANDARD  
WALL MT**



**"WATERFALL"  
WALL MT**



**END MT  
STANDARD**



**END MT  
FREE LENS**

## CONSTRUCTION

- An extruded aluminum LED lamp housing is fitted within a recessed backbox fabricated from 18 SWG galvanized steel.
- Standard finishes: satin white enamel and brushed aluminum.
- Diamond polished acrylic lenses for optimum light transmission, exterior quality and high brightness.
- Ultra high output LEDs with up to 5 candela output in green or red produce brilliant graphic illumination well above code minimums.

## CODES

- Manufactured and tested to UL Standard 924. Conforms to NFPA Life Safety Code 101, UBC and NEC.

## WARRANTY

- 5 year total customer satisfaction warranty. For details see product catalog technical data section.

## ELECTRONICS

- Universal 120/ 277 VAC input for standard battery or AC models.
- Remotes may be connected to one of the following:
  - Series CBL or CBM UNIVERSAL CENTRAL BATTERY SYSTEM
  - DC Power Supply or POE
- Power supply is surge and spike protected, with a low voltage disconnect.
- The complete power supply module with optional NICAD battery pack is sealed within a phenolic plastic enclosure. AC and DC wiring is quickly attached with plug connectors.

## DIAGNOSTICS OPTION

- An advanced microprocessor monitors all charger functions and battery condition continuously, with software to automatically perform all tests and visual indications required by UL Standard 924 and NFPA 101.



## ORDERING INFORMATION

Series	Operation	No. of Faces	Letter Color	Background Color	Trim Finish	Arrow Direction	Mount	Options
CRR	BB = Battery Backup	1 = Single Face	R = Red	C = Clear (SF)	W = Satin White	NA = No Arrow	T = Top	See Page 2
	NB = No Battery (AC Only)	2 = Double Face	G = Green	M = Mirror (DF)	BA = Brushed	AR= Arrow Right >	W = Wall	
	REC = Remote DC Power			For other options,	Aluminum	AL= Arrow Left <		
	from Central Battery			see above	X = Custom	AB= Arrow Both <>		
	REP = Remote DC Power							
	From Power Supply or POE							
						<u>Double Face Signs</u>		
						NA= No Arrow		
						LR= Single Arrow		
						Each Side >		
						AB= Double Arrow		
						Each Side <>		

EXAMPLE: CRR-BB-1-R-C-BA-NA-T-DG



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### SUGGESTED SPECIFICATIONS

Install Mule Lighting CRYSTAL Series CRR recessed LED exit signs, available as unit equipment or as a remote device connected to a central battery power source. The lamp housing and canopy shall be of extruded aluminum, graphic lenses shall be optical grade acrylic with diamond polished edges. Lighting uniformity shall be better than 4:1 when measured over any illuminated area and average brightness will exceed 6 ft Lambert (21 Cd/m<sup>2</sup>). Life expectancy of the LEDs shall be in excess of 20 years.

The power supply and charger shall be an isolated digital type with regulated current and voltage output to the lamp load and batteries (emergency models). AC supply shall be universal 120/277 VAC input via two-wire feed. One standard power supply shall be capable of driving up to 5 single face remote signs in addition to the master, with emergency operation at least 90 minutes for each sign. Battery charge time to restore full capacity after discharge shall be less than 24 hours.

### SELF-TEST DIAGNOSTIC FUNCTIONS

STATUS	LED DISPLAY
NORMAL MODE	OFF
FAILED LAMP	● GREEN
FAILED CHARGER	● RED
FAILED TRANSFER	● ORANGE
FAILED BATTERY	●● RED FLASH
FAILED ANNUAL TEST	●● ORANGE FLASH

### OPTIONS

OPTIONS	CODE
Auto Battery Diagnostics	DG
Damp Location	DP
Dual AC Input (120 VAC)	DAC
2 Hour Emergency Operation	2EM
End Mount (Left/ Right)	LE/RE
End Mount- Free Lens (Left/ Right)	LEF/REF
Waterfall Wall Mount-Clear	WFC
Waterfall Wall Mount-with Backplate	WFB
Mirror Background (SF)	M
White Background (SF & DF)	W
48VDC input (REP Models)	48
60VDC input (REP Models)	60

For other Custom Colors or Options Contact Factory

### BATTERY DIAGNOSTIC FUNCTIONS

Microprocessor programmed to perform tests as follows:

Continuous Monitoring w/ 1 Second Sampling	Every 28 Days	Every 12 Months
Lamp Connections	Transfer switch function	Full 90 minute emergency operation test with test/ fail and manual report signal
Battery Connections	Battery discharge rate under full load	
	Test switch indicator function	

### LOAD SPECIFICATIONS FOR CENTRAL BATTERY SYSTEM

FIXTURE	EPR (Watts)
CRR1RE	2
CRR2RE	4

EPR= Emergency Power Rating for Battery Load

### MOUNTING DATA & DIMENSIONS

