

Model Number: Accessories: Job:	Approvals:  Type:
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**FEATURES**

- IP65 rated for wet locations
- Compact, streamlined design
- UL94-5VA flame retardant polycarbonate components
- Injection-molded, UV stabilized, vandal resistant lens
- Provided with 24 watt compact fluorescent lamp with 1350 lumens during DC operation
- Low voltage disconnect eliminates deep discharge
- Self-Test/Self-Diagnostics (G2) standard
- Tamper resistant hardware standard
- Maintenance-free NiCad battery
- Optional NiMH battery available
- Optional time delay feature available
- Universal Mounting - Ceiling or wall mount
- 120/277V dual primary, 60Hz input
- Standard finish: Gray



The LL80, IP65 wet location emergency unit offers exceptional performance by utilizing fluorescent technology combined with metalized reflector to maximize light distribution. Ideal for indoor or outdoor applications where traditional emergency units would be vulnerable to contact with water. The LL80 operates at 75% when in emergency mode, translating into greater energy efficiency, increased fixture spacing and lower installation costs.

**WARRANTY**

Any component that fails due to manufacturer's defect is guaranteed for 5 years. Lamp is not included under warranty. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

**ORDERING INFORMATION Example: LL80-NM**

Series	Options (Factory Installed)
LL80	NM = Nickel Metal Hydride Battery
	TA = Time Delay - 120V
	TB = Time Delay - 277V
	RTT = Recessed Trimplate - T-bar application
	RTD = Recessed Trimplate - Drywall application

## CONSTRUCTION

The LL80 is constructed of vandal resistant, UV stable UL 924 V-0 flame retardant, corrosion proof thermoplastic. Units resist denting, peeling, scratching and corrosion. Tool-less access provided for easy maintenance, universal J-box mounting pattern and keyhole slots provided for simple installation.

## ILLUMINATION

Illumination is derived from a single energy efficient 24 watt long compact lamp. The LL80 incorporates an efficient, high output lens and mirror-like reflector. Reflecting hood allows for directional control therefore increasing the light output at the floor level.

## ELECTRICAL

### Input

Dual-voltage input 120 or 277VAC @ 60Hz.

### Sealed Nickel Cadmium Battery – NiCad

Exitronix sealed nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. Nickel cadmium batteries offer high discharge rates and continue to perform in a vast temperature range from 0-40 degrees C. NiCad technology provides long lasting, safe and reliable performance by utilizing the jelly-roll design and allows a Ni-Cad cell to deliver a much higher maximum current than an equivalent size alternative battery. As a relatively larger area of the electrode is in contact with the active material in each cell, the internal resistance for an equivalent sized NiCad cell is lower which increases the maximum current that can be delivered.

### Sealed Nickel Metal Hydride Battery – NiMH (Option: NM)

Exitronix sealed nickel metal hydride batteries are maintenance-free with a life expectancy of 15 years. Nickel metal hydride batteries offer several advantages over nickel cadmium; NiMH use positive electrodes of nickel oxyhydroxide (NiOOH), like the NiCad, but the negative electrodes use a hydrogen-absorbing alloy instead of cadmium therefore increasing capacity and energy density. NiMH batteries perform optimally in temperatures ranging from 0-40 degrees C. NiMH batteries are more environmentally-friendly than traditional NiCad or lead acid alternatives as they contain no cadmium or lead.

### Emergency

The LL80 will operate for a minimum of 90 minutes during a loss of power with a 24 hour maximum recharge time for the battery.

### Brownout Circuit

The brownout circuit monitors the flow of AC current to the unit and triggers the emergency lighting system once a set reduction of AC power occurs. This dip in the voltage will cause many fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

### Low Voltage Disconnect

When the battery's terminal voltage falls below predetermined levels, the low-voltage circuit disconnects the emergency lighting load. The disconnect remains in effect until normal power is restored, preventing deep battery discharge and improving the life of the battery. The disconnect will also automatically reconnect the load circuit once the battery voltage returns to a normal value after charging.

### Solid-State Transfer

The unit features a solid-state switching transistor which eliminates damaged contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC power and automatically energizes the lamps. Upon restoration of the AC voltage, the emergency lamps will switch off and the charger will automatically recharge the battery.

## Overload and Short-Circuit Protection

The solid-state overload monitoring system in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and automatically resets when the overload or short-circuit is removed. This overload current protective characteristic eliminates the need for fuses or circuit breakers for the DC load.

## Test Button

Our easily located test button allows for manual verification of proper operation of the transfer circuit and emergency lamps.

## INSTALLATION

Surface or recessed ceiling or wall mount installations.

## IP65 Rated

IP65 rating ensures that the product can be installed in outdoor applications where significant water or dust may come in contact with the fixture.

## Tamper Resistant Hardware

Tamper resistant hardware adds an additional layer of protection to the unit, preventing unwanted access to the interior of the unit or removal of the face plates.

## Time Delay (Option: TA or TB)

The purpose of this feature is to allow additional time for "normally on" fixtures to return to full brightness prior to extinguishing the supplemental light from the emergency fixtures.

## CONFORMANCE TO CODES & STANDARDS

The LL80 Series is ETL listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101.

## DIMENSIONS

