

# NF5 Series

## Outdoor Linear LED Emergency Egress Lighting

The NF5 is a dramatically compact, extreme low profile, architectural linear emergency unit offering exceptional over-the-door lighting with a 90° full cut-off light distribution. An optional mullion mount for typical glass front entrances or dividing walls provides an architectural unique look to the buildings emergency lighting.

Model: \_\_\_\_\_ Date: \_\_\_\_\_  
 Accessories: \_\_\_\_\_  
 Job Name: \_\_\_\_\_ Type: \_\_\_\_\_

### FEATURES

- Illuminates a uniform 12' x 25' area providing safe and effective outdoor emergency egress lighting
- Extreme low profile, linear design
- 10 watts of LED emergency power
- Wet location listed to UL924 and IP66 standards
- Optical LED lens coupled with prismatic polycarbonate lens for optimal light output and protection.
- Maintenance-free NiMH battery, standard
- Optional mullion mount canopy, standard with NiCad battery
- Optional PathSafe security/ night lighting (SEC) allows the fixture to be used as an emergency lighting and as security/night lighting fixture
- Optional Guardian (G2) self-testing/ self-diagnostics available
- Standard finishes: White or Brushed Aluminum
- External LED status indicator and test button
- 120/277VAC, 50/60Hz input
- Made in U.S.A.



### WARRANTY

Any component that fails due to manufacturers defect is guaranteed for 5 years with a separate 5 year pro-rated warranty on the battery. The warranty does not cover physical damage, abuse or acts of God. See the full Exitronix warranty document for detailed information.

### ORDERING INFORMATION Example: NF5-WB-10L-WM-WH-G2

| Series | Power Source      | LED Wattage           | Mounting                                     | Finish                | Options (Factory Installed)                      |
|--------|-------------------|-----------------------|--|-----------------------|--|
| NF5    | WB = With Battery | 10L = (5) 2 Watt LEDs | CM = Ceiling Mount                           | BA = Brushed Aluminum | G2 = Self-Test/Self-Diagnostics                  |
|        |                   |                       | MTM <sup>1</sup> = Mullion Top Mount Canopy  | WH = White            | SEC = Security Lighting/Night Lighting - 2 Watts |
|        |                   |                       | MWM <sup>1</sup> = Mullion Wall Mount Canopy |                       |  |
|        |                   |                       | WM = Wall Mount                              |                       |  |

### Notes

<sup>1</sup> Mullion mounting includes 2.5" x 5" mounting canopy with remote power supply

## CONSTRUCTION

The NF5 linear has a rugged, precision, low-profile design with die-cast aluminum housing including one-piece, molded, weatherproof gasket. Corrosion resistant, stainless steel hardware is standard. Heat and impact resistant prismatic polycarbonate lens resists discoloration.

## ILLUMINATION

Fixtures are supplied with high powered Cree LEDs offering 10 watts of light output with a pure white color temperature of 5600K. Optical lenses on the LED module combined with the prismatic polycarbonate lens produce an optimized elongated pattern of light throughout the path of egress. Unique housing design, lens, and mounting provide a 90° full cut-off light distribution. The high-performance LEDs have an expected life over 50,000 hours with normal use.

Lamps are connected in parallel – if one lamp fails, the balance of the lamps will continue to operate.

## ELECTRICAL

### Input

120/277VAC, 50/60Hz.

### Nickel Metal Hydride Battery – NiMH (Standard)

Extronix NiMH batteries are maintenance-free with a life expectancy of 15 years. NiMH batteries perform optimally in temperatures ranging from 32°F to 104°F (0°C to 40°C).

### Nickel Cadmium Battery – NiCad (Standard with Mullion Mount Options)

Extronix 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 32°F - 104°F (0°C - 40°C).

### Emergency

The NF5 linear will operate for a minimum of 90 minutes during a loss of power with a 24 hour minimum recharge time for the battery. The power supply delivers a regulated current and voltage to LED lamps to optimize lamp life. A momentary test switch and LED charge indicator are included.

### Brownout Circuit

The brownout circuit monitors the line voltage. As the line voltage sags and can no longer provide adequate voltage, the emergency lighting circuit will turn on to supply power to the emergency lamps for 90 minutes until the line voltage is restored.

### Low Voltage Disconnect

Low Voltage Disconnect (LVD) measures the battery terminal voltage and if it should fall below a preset voltage threshold, the LVD will disconnect the load. When the battery is recharging and voltage is raised above another preset threshold, the load is automatically reconnected.

### Solid-State Transfer

The circuit features solid-state switching for emergency lamps, eliminating concerns of damaged contact or mechanical failures associated with relays. The switching circuit detects a loss of line voltage and automatically switches to emergency mode.

### Overload and Short-Circuit Protection

The overload monitoring system in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made.

### Test Button

The test button is easy to locate and provides manual verification of the transfer circuit and emergency lamps.

## INSTALLATION

For wall or ceiling mount applications, the standard NF5 linear emergency unit requires the rough in of a standard deep J-box with a 1 1/2" extension ring, supplied by others. For mullion top or wall mount installations of the Linear Nightfall unit, a remote power supply is included to house the electronic components and power the remotely installed fixture. The mullion-mounted linear unit should be installed within 100 ft of remote power supply for typical applications.

## WET LOCATION RATED

Wet location rated fixtures can be used in applications where moderate contact with water can be expected. Wet-location rated products are designed to be reasonably watertight; they require a seal around the base, canopy, or bracket to protect the electrical service from moisture.

## IP66 RATED

IP66 rating ensures that the product can be installed in outdoor applications where significant water or dust may come in contact with the fixture. IP66 rated fixtures are designed to perform in hose down applications.

## MADE IN THE USA

Made in the U.S.A. and is in full compliance with the American Recovery and Reinvestment Act of 2009 (ARRA) requirements and Buy American provisions.

## GUARDIAN SELF-TEST/SELF-DIAGNOSTICS (Option: G2)

The Guardian circuit continuously monitors the operating condition of the AC power, battery supply voltage, emergency lamp continuity and charging circuit.

The purpose of this option is to provide visual signaling in response to a possible fault. If a failure is detected, visual status will occur immediately via the CHARGER LED and/or the BATTERY FAULT LED. The LEDs will stay illuminated until the fault is corrected.

The Guardian circuit also monitors the transfer circuit and performs automatic code compliant testing. The Guardian circuit will perform a 30 second discharge and self-test every 28-30 days. A 90 minute discharge and self-test is performed every 6 months.

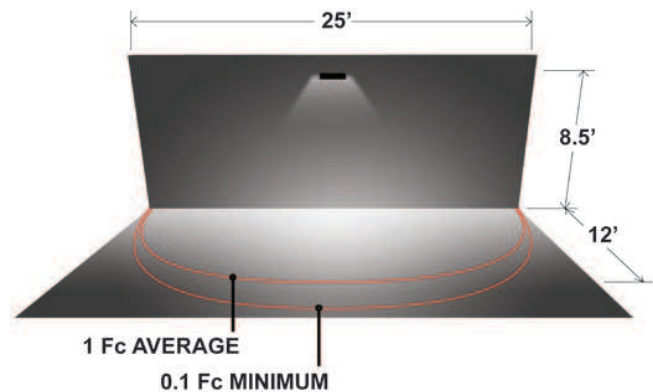
## PATHSAFE SECURITY LIGHTING/NIGHT LIGHT (Option: SEC)

The PathSafe option allows the fixture to be used both as an emergency lighting fixture and security / night lighting fixture. Models with battery back-up and the PathSafe option will operate each LED at 2 watts (SEC option) offering 50% output when in security lighting mode when connected to the active building AC supply and wired according to the installation instructions. The security lighting circuit is independent of emergency lighting and may be switched manually by exterior photocell (supplied by others) or other automatic means.

## CONFORMANCE TO CODES & STANDARDS

The NF5 linear series is ETL listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101.

## SPACING GUIDELINES



## DIMENSIONS

Spacing guidelines are designed to achieve a 1 foot-candle average and a 0.1 foot-candle minimum with a 40:1 or less max/min ratio. Guidelines are intended to be used as a design aid and are not a guarantee of code compliance. Manufacturer assumes no responsibility for local requirements or specific project variables.

