

Extremely compact, rugged die-cast aluminum emergency fixture designed to optimize light output for outdoor locations. The smooth curves of the die-cast housing and contoured prismatic lens allow this unit to blend uniformly with any architectural design. The NF3 can be installed in high abuse interior applications, such as gymnasiums and high traffic hallways, as well as rugged outdoor applications such as multi-family complexes, and campuses.

Model: _____ Date: _____
 Accessories: _____
 Job Name: _____ Type: _____

FEATURES

- 35 foot on center spacing
- Rugged, low-profile, streamlined die-cast aluminum design
- 7 or 10.5 watt Luxeon LED options
- Optical LED lens coupled with contoured prismatic polycarbonate lens for optimal light output and protection
- Maintenance-free NiCad battery, standard
- 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
- Suitable for wet and damp locations
- Optional cold location (CL) package (-40°C)
- Standard finish: White or Bronze
- 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: NF3-WB-10L-WH-G2

Series	Power Source	LED Wattage	Finish	Options (Factory Installed)
NF3	WB = With Battery	7L = (2) 3.5 Watt LEDs	WH = White	CL = Cold Location Package (-40°C to 50°C)
		10L = (3) 3.5 Watt LEDs	BR = Bronze	G2 = Self Test / Self Diagnostics
				PC/G2 = Photocontrol / Self Diagnostics
				PM20 = 20" Pole Mounting Assembly
				PM36 = 36" Pole Mounting Assembly
Notes				SEC ¹ = Security Lighting/Night Lighting - 2 Watts per LED
1 Required with CL option when operating at -40°C				TD = Time Delay (20 min)

CONSTRUCTION

The NF3 has a rugged, precision, low-profile design with die-cast aluminum housing including a one-piece, molded, weatherproof gasket. Heat and impact resistant polycarbonate prismatic lens resists discoloration.

ILLUMINATION

Fixtures are supplied with high powered Luxeon LEDs offering 7 watts or 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. 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 Cadmium Battery – NiCad (Standard)

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).

Nickel Metal Hydride Battery – NiMH (Standard with CL option)

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).

Emergency

The NF3 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.

INSTALLATION

This NF3 emergency unit can be surface mounted utilizing a universal j-box mounting pattern and gasket, or by using the conduit entry point at the top of the fixture. Not suitable for ceiling mount 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.

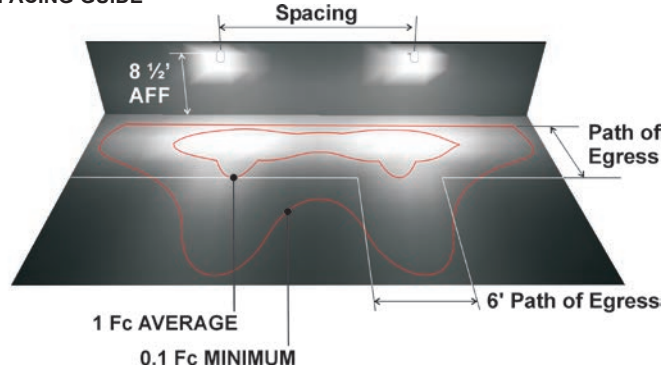
COLD LOCATION RATED (Option: CL)

The NF3 offers a cold location rating and extends the temperature range to -40° C – 30° C. This is ideal for colder climates or freezer/cold room applications.

CONFORMANCE TO CODES & STANDARDS

The NF3 Series is ETL listed and meets or exceeds the following: UL 924, NEC requirements and NFPA 101.

SPACING GUIDE

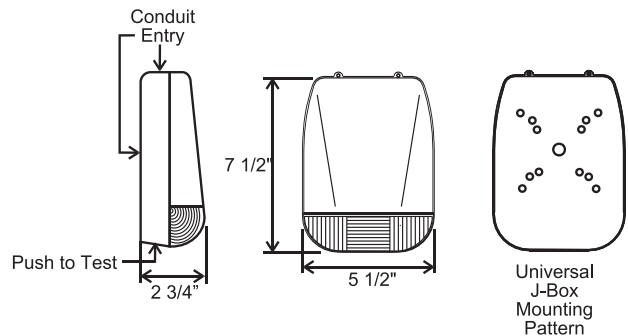


LED	Mtg. Ht.	Spacing		
		Path of Egress Width		
		3 Ft.	6 Ft.	10 Ft.
7L	8 1/2'	40'	30'	20'
10L*	8 1/2'	40'	35'	30'

* Projection from building: 30 feet.

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.

DIMENSIONS



Specifications are subject to change without notice. Installation must be performed in accordance with Barron Lighting Group installation instructions.