

EXIT AND EMERGENCY LIGHTING

**Navilite®**

Specification-grade  
Exit and Emergency lighting  
for commercial and industrial  
applications





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# NaviLite Exit & Emergency Lighting

## Durability – Reliability – Installer-Friendly – Value

Hallmarks of Juno Lighting products since 1976, these characteristics are the building blocks for NaviLite Exit & Emergency Lighting. Featuring the premium quality and speedy delivery for which Juno Lighting is known, NaviLite is the perfect single source for all your exit and emergency lighting needs. Ideal for retail, commercial and industrial applications, NaviLite's extensive offering includes a complete line of exit signs, emergency lighting units, remote heads, options and accessories to suit practically any application.

**Regulatory Compliance:** NaviLite Exit & Emergency Lighting products are designed to comply with the latest codes and performance standards including: UL924, NFPA 101 Life Safety Code, CSA, NEC, NEMA, OSHA and most state and local codes.

**Satisfaction Guarantee:** Our commitment to quality and service is unmatched in the industry. Our technical support staff is standing by to provide you with whatever assistance you require. Plus, all NaviLite products come with a full five-year warranty<sup>1</sup>.

**Popular Options:** NaviLite offers a number of valuable options available on most models, providing unsurpassed flexibility in meeting your application needs. These options include:

- Self-Diagnostic / Self-Test
- High Output / Remote Capacity
- Two-Circuit Capability

## Self-Diagnostic / Self-Test (SD Option)



The Self-Diagnostic / Self-Test capability is becoming increasingly more important in exit and emergency lighting as architects, engineers, designers and building owners consider its tremendous added value relative to system maintenance and reliability. The NaviLite SD Option not only provides user alerts to system malfunction and guides the

troubleshooting process, it also executes periodic monthly and annual tests to confirm proper system

operation. Any lamp, battery or charger circuit failure is quickly and accurately diagnosed, followed by a visual indication pinpointing the exact nature of the failure. The Self-Diagnostic / Self-Test Option helps to insure that your life safety fixtures will operate when they are needed.

## High Output / Remote Capacity (HO Option)

In some instances, it may prove more cost effective to operate one or two emergency lamps using one higher capacity fixture rather than install an additional discrete emergency light. Or, in many municipalities, emergency lighting is often required at an exit door and even on the egress path leading outside the building. For these applications and many others, NaviLite offers the High Output Option on a number of emergency lights and exit signs. These fixtures are equipped with a larger capacity battery designed to operate an additional remote load in the event of a power outage. See specific fixtures with the HO Option to confirm the available additional capacity.

## Two-Circuit Capability (2C Option)

Many NaviLite AC Only exit signs are available with Two-Circuit Capability to meet various local and special codes. Two-Circuit exit signs are designed with a second AC input circuit enabling the sign to automatically switch to the alternate source in the event of primary AC failure. These signs are often specified in installations that employ a central inverter system or standby generator for emergency power such as high-rise buildings, banking institutions and health care facilities. Optional Two-Circuit signs are all dual voltage 120/277 VAC, can be specified with red or green letters and do not require any additional accessories.



<sup>1</sup>Excluding batteries which are warranted for either 5 years pro-rata (lead calcium) or 10 years pro-rata (nickel cadmium)





# NaviLite Exit Signs

NaviLite Exit Signs are created with the needs of our customers in mind. The result of this understanding is reflected in the aesthetically pleasing, easy to install, and energy conscious products that is the NaviLite brand.

**Rugged design – easy installation:** NaviLite Exit Signs are constructed using the most durable materials such as polycarbonate/ABS copolymers, heavy gauge steel and die cast aluminum. All materials are color stable, impact resistant, flame retardant and scratch resistant. Many NaviLite Exit Signs include a quick-connect feature and all feature field-configurable chevron directional indicators.

**Architectural styling and performance:** Soft, rounded edges and rich, subtle textures provide aesthetically pleasing solutions for exit lighting. NaviLite LED Exit Signs employ custom diffusing systems to produce bright, uniform illumination in striking contrast to conventional exit signs.

**Energy savings:** NaviLite Exit Signs utilize LEDs as a light source. LEDs save energy and reduce maintenance costs. Because they are not wasting electrical energy as heat, like typical light sources, LEDs are the most efficient electronic light source available for exit signs. This helps explain why LEDs have surpassed incandescent and fluorescent sources as the #1 choice of energy conscious consumers.

**Reduced maintenance:** One of the most significant components of exit sign operating cost is lamp maintenance. Because NaviLite Exit Signs are constructed using LED illumination, maintenance costs are virtually eliminated. This, along with low energy consumption, has made LED exit signs the most popular choice for today's applications.



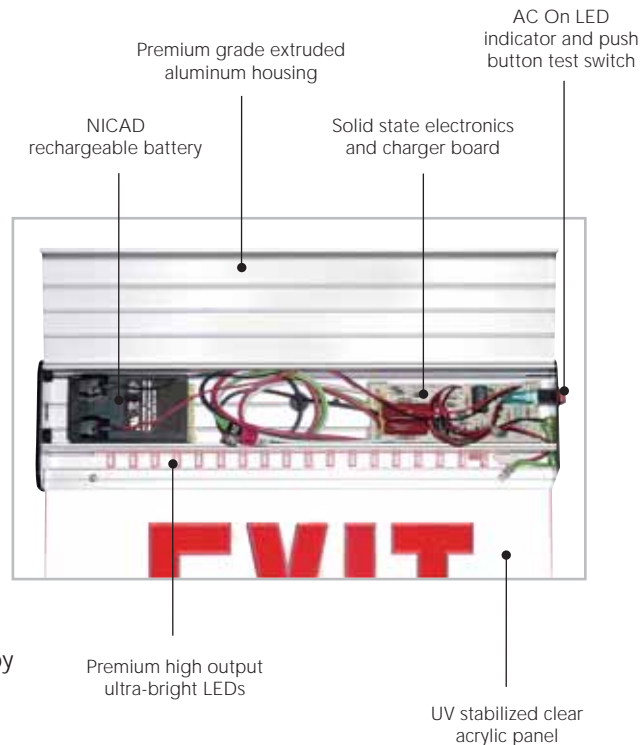
## Surface Edge-Lit LED Exit Signs – NXE Series

Ideal for architectural applications, Surface Mount Edge-Lit LED Exit Signs offer specification grade aesthetics with in-field installation flexibility.



### Features

- Long life, energy saving LED lamps
- Aesthetically pleasing extruded aluminum housing in black, white and anodized aluminum finishes
- Crystal clear acrylic face panel
- Engraved letters increase visibility
- Mirror divider on double face versions
- Field applied chevron directional indicators – pioneered by Juno in 1997 – simplifies specification and installation
- Tri-mount canopy (included) enables top, back or end mounting
- Dual voltage 120/277 VAC operation
- NICAD battery is standard (battery backup versions)

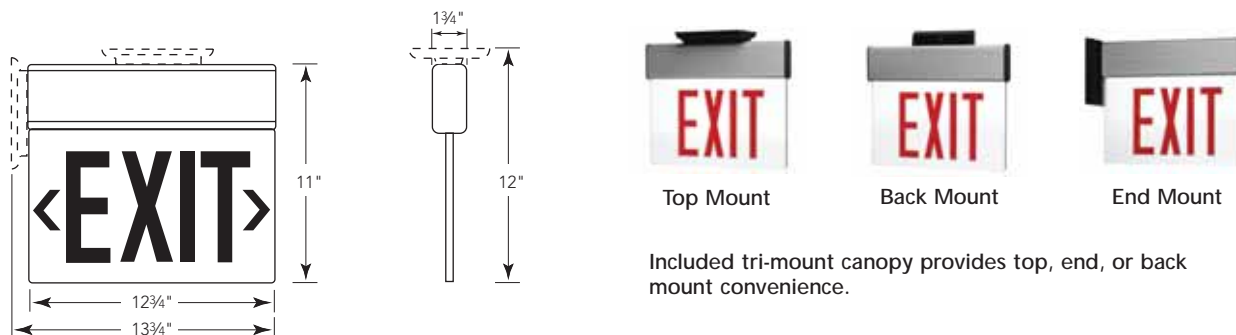


### Ordering Information - NXE Series-Navilite Edge-Lit LED Exit Sign

Series	Mounting Style	Operation	Number of Faces	Letter Color	Housing Finish	Example Cat. #
NXE	S	B	1	R	AA	NXESB1RAA
NXE Series	S-Surface Mount	Blank-AC only B-Battery Backup	1-Single Face 2-Double Face	R-Red G-Green	WH-White BL-Black AA-Anodized Aluminum	

Note: For compatible accessories, see page 43.

### Dimensions





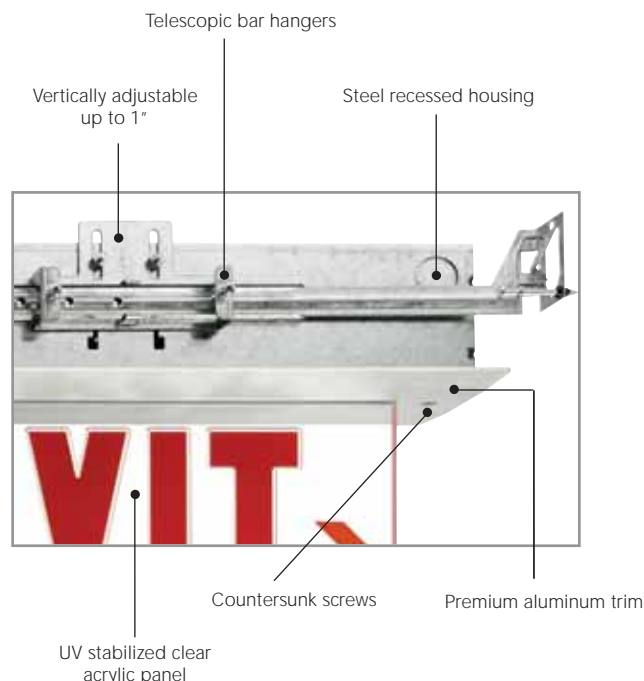
## Recessed Edge-Lit LED Exit Signs – NXECR & NXEWR

NaviLite Recessed Edge-Lit Exit Signs offer an elegant and unobtrusive alternative for applications where minimum disruption of the building decor is desired.



### Features

- Available in both ceiling (NXECR) and wall (NXEWR) mounted versions
- Bar hangers suitable for joist or suspended ceiling applications (shipped installed)
- Commercial brackets are also included (shipped loose in the box)
- Can be mounted in all types of ceilings, including plaster/drywall and suspended ceilings
- Plug in connectors between trim and housing
- Recessed housing with seven 3/4" knockouts
- Field applied chevron directional indicators
- NiCad battery is standard (Battery backup versions only)



**Note:** Special signage available. Consult factory for details.

### Accessories

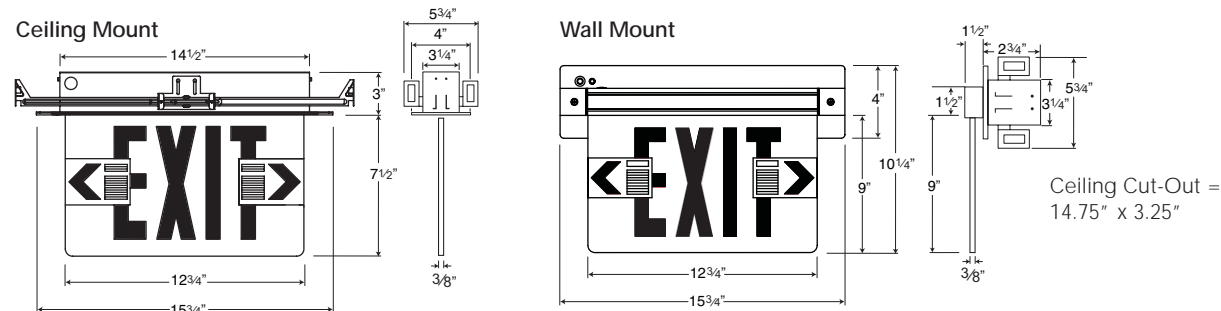
Catalog Number	Description
HB-26	26" C-Channel Bar Hangers (set of 2)
HB-50	50" C-Channel Bar Hangers (set of 2)
BL-27	27" Linear Bar Hangers (set of 2)

Accessory bar hangers are only required when using the commercial brackets. All accessories must be ordered separately.

### Ordering Information - Recessed Ceiling/Wall Edge-Lit Exit Sign

Series	Operation	Number of Faces	Letter Color	Finish	Example Cat. #
NXECR	B	1	R	WH	NXDECRB1RWH
NXECR = Ceiling Recessed Edge-Lit Exit Sign	Blank-AC only B-Battery Backup	1-Single Face 2-Double Face	R-Red G-Green	WH-White BA-Aluminum	
NXEWR = Wall Recessed Edge-Lit Exit Sign					

### Dimensions



## Die-Cast Aluminum LED Exit Signs – NXD Series

Die Cast Aluminum LED Exit Signs offer rich, unparalleled aesthetics in a durable, all-metal construction. This cost-effective package offers premium performance and simplified installation, making it the benchmark selection for both architectural and commercial applications.



### Features

- Long life, energy saving LED lamps
- Architectural-grade, die cast aluminum housing in a variety of finishes
- Gently arched faceplate snaps into housing without tools
- Field selectable chevron directional indicator knock-outs
- Integral wiring channels to facilitate installation
- Universal mounting pattern knockouts in backplate for J-box mounting
- Die cast aluminum canopy (included) enables top or end mounting
- Single face versions can easily be field converted to double face with faceplate accessory
- Dual voltage 120/277 VAC operation
- Maintenance-free 4.8V sealed nickel cadmium battery (battery backup versions)

### Ordering Information - NXD Series–NaviLite Die Cast Aluminum Exit Sign

Series	Operation	Number of Faces	Letter Color	Finish	Options	Example Cat. #
NXD	D	1	R	WH	SD	NXDD1RWHSD
NXD Series	Blank-AC only B-Battery Backup	1-Single Face 2-Double Face	R-Red G-Green	WH-White BL-Black BA-Brushed Aluminum BAB-Brushed Aluminum Face/ Black Housing BAW-Brushed Aluminum Face/ White Housing	SD-Self-Diagnostic <sup>1</sup>	

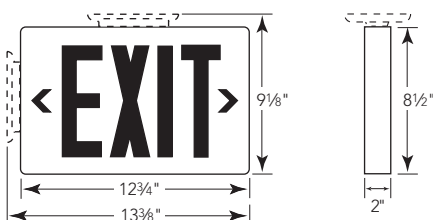
### Accessories (includes red and green diffuser)

Catalog Number	Description
NXDFPRGWH	Second Faceplate – White
NXDFPRGBL	Second Faceplate – Black
NXDFPRGBA	Second Faceplate – Brushed Aluminum

Note: For compatible accessories, see page 43.

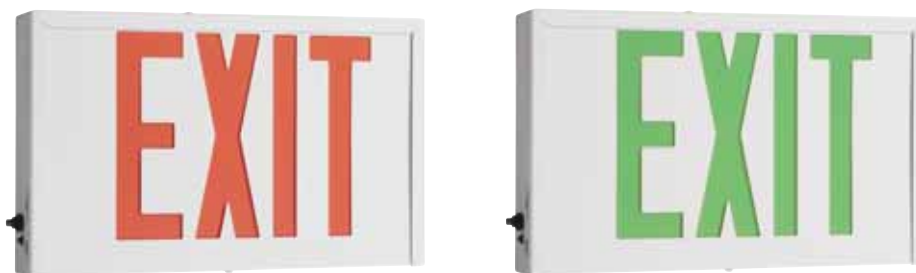
<sup>1</sup>Available exclusively on Battery Backup signs.

### Dimensions



## Steel LED Exit Signs – NXS Series

Steel Exit Signs offer a sleek appearance in a rugged design. Ideal for applications that require the durability of metal construction in an economical package, along with the operating savings provided by LED lamps.



### Features

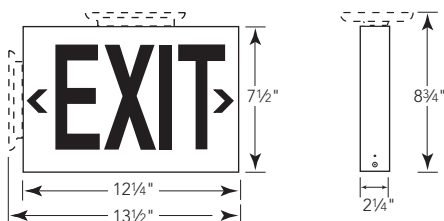
- Long life, energy saving LED lamps
- Rugged, heavy duty, 20-gauge die-formed steel construction
- Corrosion resistant polyester powder coat paint
- Field selectable chevron directional indicator knockouts
- Universal mounting pattern knockouts in backplate for J-box mounting
- Screw-on canopy (included) for simple top or end mounting
- Universal single face and double face (extra faceplate included)
- Dual voltage 120/277 VAC operation
- Maintenance-free 3.6V sealed nickel cadmium battery (battery backup versions)

### Ordering Information - NXS Series–NaviLite Steel LED Exit Sign

Series	Operation	Number of Faces	Letter Color	Finish	Example Cat. #
NXS	B	3	G	BL	NXSB3GBL
NXS Series	Blank-AC only B-Battery Backup	3-Universal Single and Double Face	R-Red G-Green	WH-White BL-Black	

Note: For New York and Chicago approved versions, consult factory.  
For compatible accessories, see page 43.

### Dimensions







## Thermoplastic LED Exit Signs – NXP Series

Slim profile Thermoplastic LED Exit Signs offer long lamp life, energy efficiency and uniform illumination in an economical package. Possessing premium installation features such as a snap-fit canopy and housing, along with push-out chevron directional indicators, the NXP Series offers unsurpassed value in an aesthetically pleasing design.



### Features

- Long life, energy saving LED lamps
- Injection molded, high impact, UV-stabilized thermoplastic construction in black or white finishes
- Snap-fit faceplate installs without the use of tools
- Field replaceable chevron directional indicator knockouts
- Integral wiring channels to facilitate installation
- Universal mounting pattern knockouts in backplate for J-box mounting
- Snap-fit canopy (included) enables speedy top or end mounting
- Universal single face and double face (extra faceplate included)
- Dual voltage 120/277 VAC operation
- Maintenance-free 4.8V sealed nickel cadmium battery (battery backup versions)
- Optional High Output versions can power an additional 11 Watts (for remote heads) for 90 minutes
- Damp location listed (except optional HO and SD versions)

### Ordering Information - NXP Series–NaviLite Thermoplastic LED Exit Sign

Series	Operation	Number of Faces	Letter Color	Finish	Options	Example Cat. #
NXP	B	3	R	WH	HO	NXPB3RWHHO
NXP Series	Blank-AC only B-Battery Backup	3-Universal Single and Double Face	R-Red G-Green	WH-White BL-Black	2C-Two-Circuit <sup>1</sup> HO-High Output <sup>2</sup> SD-Self-Diagnostic <sup>2</sup>	

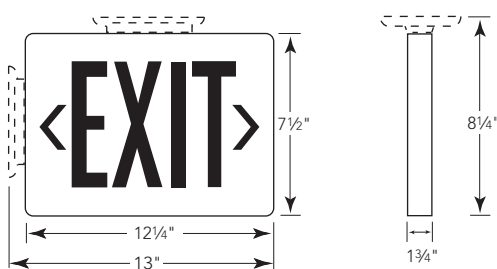
Note: For compatible accessories, see page 43.

<sup>1</sup>Available exclusively on AC Only signs.

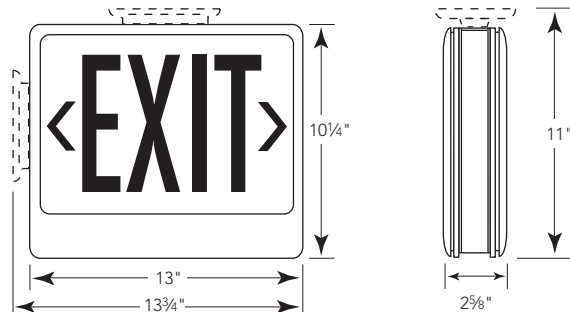
<sup>2</sup>Available exclusively on Battery Backup signs and uses sealed lead calcium battery; Options may not be combined – for applications requiring multiple options, consult factory.

### Dimensions

#### AC/Battery Backup Version



#### HO Version





## Thermoplastic Combo LED Exit Sign/Emergency Lights – NXPC Series

Energy saving combination LED exit sign and emergency lighting unit in one compact, modern design. Flexibility and multi-function capabilities make our combo lights one of our most popular models.



### Features

- Long life, energy saving LED lamps
- Injection molded, high impact, UV-stabilized thermoplastic construction in black or white finishes
- Snap-fit faceplate installs without the use of tools
- Field replaceable chevron directional indicator knockouts
- Integral wiring channels to facilitate installation
- Universal mounting pattern knockouts in backplate for J-box mounting
- Snap-fit canopy (included) enables speedy top mounting
- Universal single face and double face (extra faceplate included)
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V sealed lead calcium battery
- Includes two 6V, 5.4W adjustable emergency lighting heads (incandescent wedge base lamps)
- Emergency lighting heads rotate up to 270° for optimum aiming
- Optional High Output versions can power an additional 6 Watts for 90 minutes
- Damp location listed (except optional HO and SD versions)

### Ordering Information - NXPC Series–NaviLite Thermoplastic Combo LED Exit Sign / Emergency Light

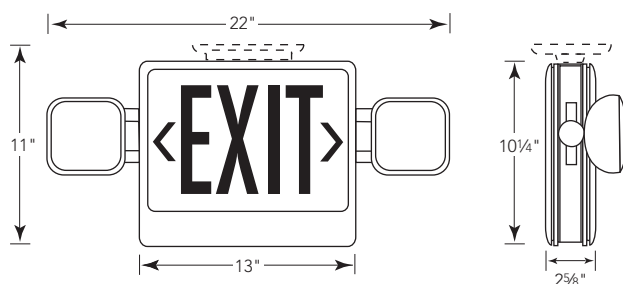
Series	Number of Faces	Letter Color	Finish	Options	Example Cat. #
NXPC	3	R	WH	HO	NXPC3RWHHO
NXPC Series	3-Universal Single and Double Face	R-Red G-Green	WH-White BL-Black	HO-High Output <sup>1</sup> SD-Self-Diagnostic <sup>2</sup>	

Note: For compatible accessories, see page 43.

<sup>1</sup> In addition to the two 5.4W factory attached heads, the HO Option provides an additional 6 Watts remote capacity for 90 minutes.

<sup>2</sup> Options may not be combined – for versions with multiple options, consult factory.

### Dimensions



Heads rotate 270°+ for maximum field flexibility.

## Wet Location LED Exit Signs and Wet Location Combo LED Exit Sign/Emergency Lighting – NXW Series

Wet location approved exit signs feature an enclosure resistant to corrosive atmospheres, non-hazardous dust environments, hose-downs water spray or splashing water.



### Features

- Long life, energy saving LED lamps
- Corrosion and impact resistant thermoplastic housing
- Clear polycarbonate faceplate with white vinyl EXIT stencil
- Sealed and gasketed housing
- Sealed test switch and power indicator light
- Integral breather vent
- Field selectable chevron directional indicator punch-outs
- Single face, surface mount versions only
- Includes mounting screws and hardware
- Dual voltage 120/277 VAC operation
- Listed for wet location applications (0°C-40°C)
- Maintenance-free 4.8V sealed nickel cadmium battery (battery backup versions)
- Maintenance-free 6V sealed nickel cadmium battery (combo versions)
- Combo version includes two sealed and gasketed 6V, 5.4W weatherproof lighting heads with tempered glass lenses (incandescent wedge base lamps)

### Ordering Information – AC Only Units

Catalog Number	Letter Color	Housing Finish
NXWRGY	Red	Gray
NXWGKY	Green	Gray

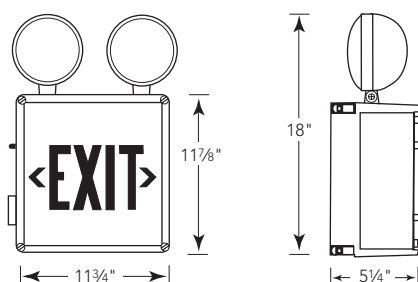
### Ordering Information – Battery Backup Units

Catalog Number	Letter Color	Housing Finish
NXWBRGY	Red	Gray
NXWBGGY	Green	Gray

### Ordering Information – Combo Units

Catalog Number	Letter Color	Housing Finish
NXWCRGY	Red	Gray
NXWCKGY	Green	Gray

### Dimensions





## Tritium Self-Luminous Exit Signs – NXT Series

Tritium Self-Luminous Exit Signs require no external energy source, no electrical wiring or batteries, making them ideal for applications where electrical power cannot be easily provided.

Securely sealed borosilicate glass tubes encapsulate a small amount of tritium gas which excites a custom phosphor coating causing them to glow. These “glow tubes” are assembled into an EXIT pattern and enclosed in a rugged thermoplastic housing. Because these signs require no electrical power or batteries, the NXT Series is easy to install and require no maintenance – there are no annual operating costs to consider!



### Features

- No energy consumption and no maintenance for the life of the sign
- 10 year or 20 year rated life
- Injection molded, impact resistant thermoplastic housing in white, black or chrome finishes
- Clear protective faceplate with EXIT lettering surrounded by a red or green background
- Field selectable chevron directional indicators
- Multiple mounting holes provided for concealed back mounting
- Screw-on mounting bracket (included) for simple top or end mounting
- Single face and double face versions available
- Suitable for wet locations, hazardous locations, and floor proximity installation

### Ordering Information - NXT Series–NaviLite Tritium Self-Luminous Exit Sign

Series	Number of Faces	Face Color	Housing Finish	Rated Life	Example Cat. #
NXT	1	R	WH	10	NXT1RWH10
NXT Series	1-One 2-Two	R-Red G-Green	WH-White BL-Black CH-Chrome	10-10 Years 20-20 Years	

Note: For compatible accessories, see page 43.

### Dimensions





# NaviLite Emergency Lighting

NaviLite offers an extensive selection of emergency lighting solutions to meet the variety of applications you may encounter. All feature rugged design and easy installation along with performance that is second to none. Many of the products possess remote capability, offering more design flexibility for demanding environments. Specialty items like Fluorescent Emergency Ballasts provide elegant, practically transparent, solutions for emergency lighting.

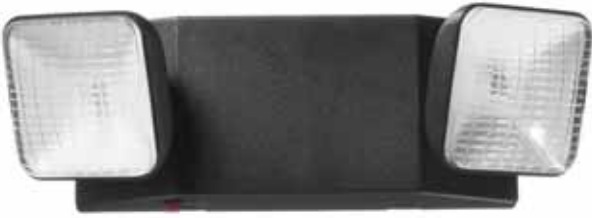
**NaviLite Emergency Lighting features include:**

- Rugged design with contemporary styling
- Fast, easy installation
- Dual voltage 120/277 VAC operation
- Fully adjustable lighting heads enabling them to aim in any direction
- Remote capability for greater design flexibility
- Damp or Wet Location ratings for special environments



## Tritium Self-Luminous Exit Signs – NXT Series

Contemporary design, full adjustability, quick installation and premium options in a stylish and economical package.



### Features

- Injection molded, high impact, UV-stabilized thermoplastic construction
- Compact, low profile design in white or black finishes
- Universal mounting plate with quick-connect feature reduces installation labor
- Snap-together construction speeds installation
- Universal mounting pattern knockouts in backplate for J-box mounting
- Fully adjustable glare-free lighting heads
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V sealed lead calcium battery
- Supplied with 6V, 5.4W incandescent wedge base lamps
- Optional High Output versions can power a total of 16.5 Watts for 90 minutes
- Damp location listed (except optional HO and SD versions)
- Suitable for wall or ceiling mounting

### Ordering Information – Standard Units

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts		
				1½ hrs.	2 hrs.	4 hrs.
N1WH	White	6V	2 x 5.4W	11	-	-
N1BL	Black	6V	2 x 5.4W	11	-	-
N1WHSD (Self-Diagnostic)	White	6V	2 x 5.4W	11	-	-
N1BLSD (Self-Diagnostic)	Black	6V	2 x 5.4W	11	-	-

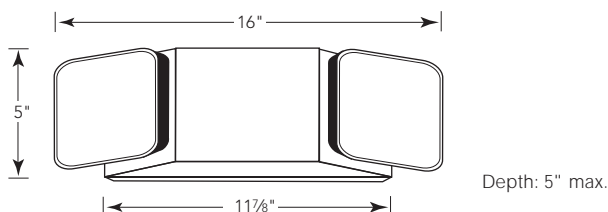
### Ordering Information - High Output Units

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts		
				1½ hrs.	2 hrs.	4 hrs.
N1WHHO	White	6V	2 x 5.4W	16.5	11	-
N1BLHO	Black	6V	2 x 5.4W	16.5	11	-
N1WHHOSD (Self-Diagnostic)	White	6V	2 x 5.4W	16.5	11	-
N1BLHOSD (Self-Diagnostic)	Black	6V	2 x 5.4W	16.5	11	-

Remote Head Example: In addition to the two 5.4W factory attached heads, the N1WHHO can operate one additional 5.4W remote head (16.2W total) for 1½ hours.

Note: For compatible accessories, see page 43.  
Consult factory for alternate lamp choices.

### Dimensions





## Fixed Optics Emergency Lighting Units – N2 Series

Ultra-compact, low profile, ADA compliant emergency light with fixed optics provides consistent, predictable aiming whether mounted on wall or ceiling.



### Features

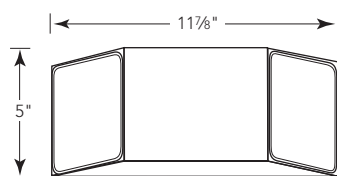
- Injection molded, high impact, UV-stabilized thermoplastic construction
- Ultra-compact, low profile design in white or black finishes
- Universal mounting plate with quick-connect feature reduces installation labor
- Snap-together construction speeds installation
- Universal mounting pattern knockouts in backplate for J-box mounting
- Fixed optics prismatic lenses direct light along typical path of egress
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V sealed lead calcium battery
- Supplied with 6V, 5.4W incandescent wedge base lamps
- Damp location listed
- Suitable for wall or ceiling mounting

### Ordering Information

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts		
				1½ hrs.	2 hrs.	4 hrs.
N2WH	White	6V	2 x 5.4W	11	-	-
N2BL	Black	6V	2 x 5.4W	11	-	-

Note: For compatible accessories, see page 43.

### Dimensions



Depth: 2 1/2"

## MR16 Emergency Lighting Units – N3 Series

Fully adjustable MR16 designer heads offer a fresh aesthetic in this elegantly designed, quick-install emergency light.



### Features

- Injection molded, high impact, UV-stabilized thermoplastic construction
- Compact, low profile design in white or black finishes
- Universal mounting plate with quick-connect feature reduces installation labor
- Snap-together construction speeds installation
- Universal mounting pattern knockouts in backplate for J-box mounting
- Fully adjustable glare-free lighting heads
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V sealed lead calcium battery
- Supplied with 6V, 5W MR16 halogen lamps
- Optional High Output versions can power a total of 15 Watts for 90 minutes
- Suitable for wall or ceiling mounting

### Ordering Information – Standard Units

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts		
				1½ hrs.	2 hrs.	4 hrs.
N3WH	White	6V	2 x 5W	11	-	-
N3BL	Black	6V	2 x 5W	11	-	-
N3WHSD (Self-Diagnostic)	White	6V	2 x 5W	11	-	-
N3BLSD (Self-Diagnostic)	Black	6V	2 x 5W	11	-	-

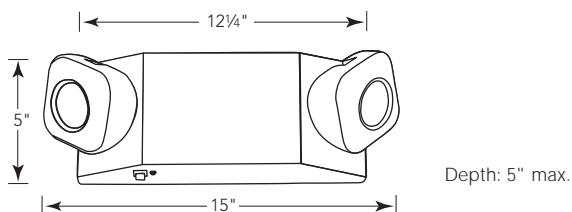
### Ordering Information - High Output Units

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts		
				1½ hrs.	2 hrs.	4 hrs.
N3WHHO	White	6V	2 x 5W	15	10	-
N3BLHO	Black	6V	2 x 5W	15	10	-

Remote Head Example: In addition to the two 5W factory attached heads, the N3WHHO can operate one additional 5W remote head (15W total) for 1½ hours.

Note: For compatible accessories, see page 43.

### Dimensions



## High Performance Optics Emergency Lighting Units – N4 Series

High performance optics, full adjustability, and a variety of lamp options to meet the most stringent illumination requirements.



### Features

- Two round adjustable heads
- High performance reflector/lens assembly
- Redesigned snap-in assembly
- Choice of battery capacity and lamp wattage
- White or Black finish
- Available with remote load capacity

### Recommended Fixture Spacing

3 Feet Wide Path of Egress		
Lamp	Spacing	Ave Illumination
6V 5.4W	18.5 ft.	1.03 FC
6V 7.2W	22 ft.	1.04 FC
6V 9W	26 ft.	1.03 FC

#### Fixture spacing calculation:

Room reflectances 80/50/20 ceiling, walls, and floor respectively.

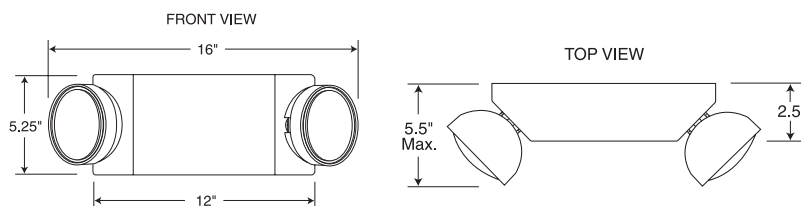
Fixtures mounted 7' from the floor for 5.4W and 7.2W lamps, and 7.5' from floor for 9W lamps.

Values represent an approximation and are based on an open environment. Juno Lighting Group takes no responsibility for local requirements or specific project variables. Information is provided only as an approximation of coverage/spacing.

### Ordering Information – N4 Thermoplastic Emergency Lighting Unit

	Catalog Number	Finish	Output Voltage & Lamp Wattage	Remote Capability
Standard Units	N4WH N4BL	White Black	Two 6V 5W T5 Wedge Base	
High Performance Units	N4WHH07	White	Two 6V 7.2W T5 Wedge Base	
	N4BLH07	Black		
	N4WHH09	White	Two 6V 9W T5 Wedge Base	
	N4BLH09	Black		
	N4WHH010	White	Two 6V 10W T5 Wedge Base	
	N4BLH010	Black		
Remote Capable Units	N4WHHO N4BLHO	White Black	Two 6V 5.4W T5 Wedge Base	Up to 10.8W

### Dimensions



## Semi-Recessed Emergency Lighting Units – N7 Series

Semi-Recessed Emergency Lighting Unit mounts flush with the ceiling for a concealed, unobtrusive look. Ideal for applications that require adjustability when wall mounting is undesired or not practical.

### Features

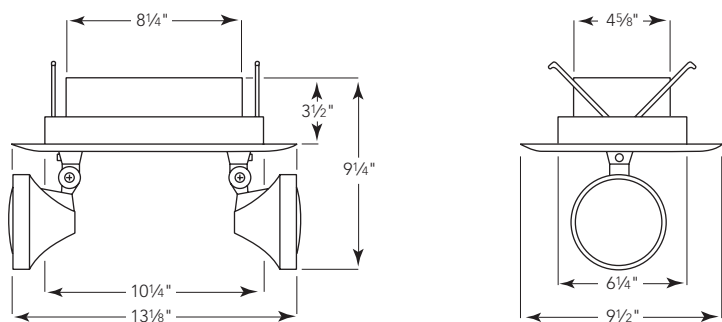
- Heavy duty, 20-gauge die-formed steel faceplate
- Corrosion resistant polyester powder coat paint in white finish
- Recessed housing equipped with adjustable bar hangers for installation flexibility
- Faceplate attaches to housing via heavy duty torsion springs for snug fit to ceiling
- Injection molded, high impact, UV-stabilized thermoplastic lighting heads
- Fully adjustable glare-free lighting heads
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V sealed lead calcium battery
- Supplied with 6V, 5.4W incandescent wedge base lamps
- Suitable for wall or ceiling mounting



### Ordering Information

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts		
				1½ hrs.	2 hrs.	4 hrs.
N7WH	White	6V	2 x 5.4W	11	-	-

### Dimensions



## Fully-Recessed Emergency Lighting Units – NRG Series

Fully recessed unit for new construction blends smoothly with the surrounding.

### Features

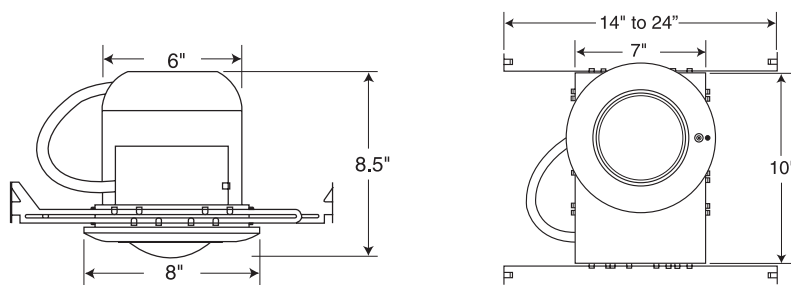
- Fully adjustable thermoplastic gimbal assembly
- PAR36 size lens and reflector assembly optimized for Emergency Lighting
- 6V 8W bi-pin Halogen lamp
- Integral test switch and AC ON LED
- Battery and electronics inside the housing
- 6" steel recessed housing with bar hangers



### Ordering Information – NRG Recessed Emergency Gimbal

Catalog Number	Finish	Lamp	Battery
NRGWH	White	One 6V 8W Bi-Pin Halogen	Lead Acid

### Dimensions





## High Wattage Emergency Lighting Units – N6 (6-Volt) & N12 (12-Volt) Series

High Wattage Emergency Lights are designed with larger batteries to deliver the remote capacity or longer emergency operation required in common commercial and industrial applications. 6V units are ideal for shorter runs while 12V units enable longer runs with reduced voltage drop.

### Features

- Injection molded, high impact, UV-stabilized thermoplastic construction
- Rugged, heavy duty design in white (neutral) finish
- Multiple conduit knockouts on top and sides for installation flexibility
- Keyhole slots for simplified wall mounting
- Fully adjustable, gasketed, glare-free lighting heads with tempered glass lenses (incandescent wedge base lamps)
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V sealed lead calcium battery connected in parallel (N6 Series) or series (N12 Series) configurations
- Supplied with 6V, 7.2W (N6 Series) or 12V, 9W (N12 Series) incandescent wedge base lamps



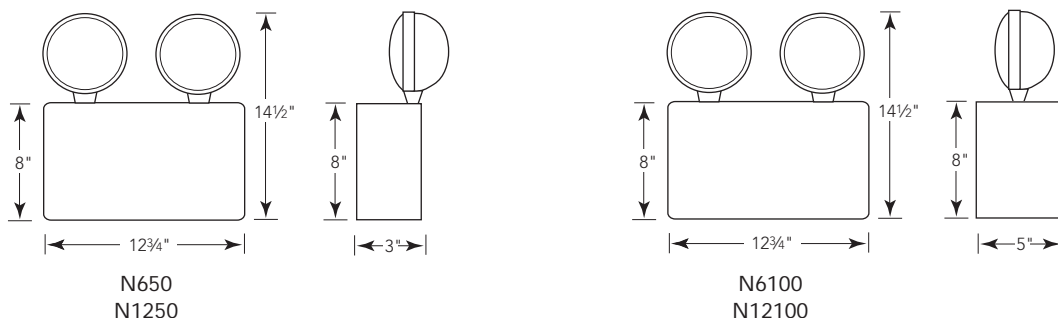
### Ordering Information – Standard Units

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts			
				1½ hrs.	2 hrs.	4 hrs.	8 hrs.
N650WH	White	6V	2 x 7.2W	50	37	18	-
N6100WH	White	6V	2 x 7.2W	100	75	37	18
N1250WH	White	12V	2 x 9W	50	37	18	-
N12100WH	White	12V	2 x 9W	100	75	37	18

Remote Head Example: In addition to the two 9W factory attached heads, the N12100WH can operate nine additional 9W remote heads (99W total) for 1½ hours.

Note: Consult factory for alternate lamp choices.

### Dimensions



## Wet Location Emergency Lighting Units – N8 Series

Wet Location units feature construction which is ideal for wet locations, while also being resistant to corrosive atmospheres, non-hazardous dust environments, frequent hose-downs, water spray or splashing water.

### Features

- Corrosion and impact resistant polycarbonate housing in industrial gray finish
- Sealed and gasketed housing with hinged cover
- Sealed test switch and power indicator light
- Integral breather vent
- External mounting brackets for simplified wall mounting
- Sealed and gasketed weatherproof lighting heads with tempered glass lenses
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V sealed lead calcium battery
- Supplied with 6V, 7.2W incandescent wedge base lamps
- High Output version can power a total of 24 Watts for 90 minutes
- Listed for wet location applications (0°C-40°C)



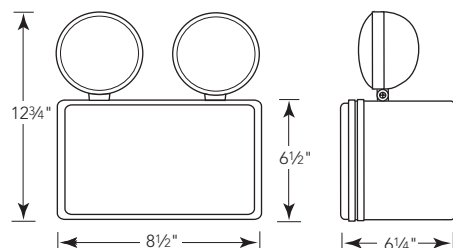
### Ordering Information – Standard Units

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts			
				1½ hrs.	2 hrs.	4 hrs.	8 hrs.
N8GY	Gray	6V	2 x 7.2W	18	-	-	-

Remote Head Example: In addition to the two 7.2W factory attached heads, the N8GYHO can operate one additional 7.2W remote head (21.6W total) for 1½ hours.

Note: For compatible accessories, see page 43.  
Consult factory for alternate lamp choices.

### Dimensions



## Remote Lamp Heads – NR Series

A variety of remote head styles are available to suit practically any application.



### Ordering Information – Square Remote Lamp Head

Series	Style	Number of Heads	Finish	Lamp Type	Example Cat. #
NR	SQ	1	WH	9W	NRSQ1WH6V5
NR	SQ-Square	1-One 2-Two	WH-White BL-Black	6V5-6V, 5.4W 6V7-6V, 7.2W 6V9-6V, 9W 12V7-12V, 7.2W 12V9-12V, 9W 12V12-12V, 12W	



### Ordering Information – MR16 Remote Lamp Head

Series	Style	Number of Heads	Finish	Lamp Type	Example Cat. #
NR	MR	1	WH	6V5	NRMR1WH6V5
NR	MR-Designer MR16	1-One 2-Two	WH-White BL-Black	6V5-6V, 5W	

Note: Other voltage/wattage configurations are available – if desired, consult factory.

## Remote Lamp Heads – NR Series



### Ordering Information – Round Remote Lamp Head

Series	Style	Number of Heads	Finish	Lamp Type	Example Cat. #
NR	RD	1	WH	6V5	NRRD1WH6V5
NR	RD-Round	1-One 2-Two	WH-White BL-Black	6V5-6V, 5.4W 6V7-6V, 7.2W 6V9-6V, 9W 12V7-12V, 7.2W 12V9-12V, 9W 12V12-12V, 12W	



### Ordering Information – Weatherproof Remote Lamp Head

Series	Style	Number of Heads	Finish	Lamp Type	Example Cat. #
NR	WP	1	GY	6V5	NRWP1GY6V5
NR	WP-Weatherproof	1-One 2-Two	GY-Gray	6V5-6V, 5.4W 6V7-6V, 7.2W	

Note: Other voltage/wattage configurations are available – if desired, consult factory.

## Fluorescent Emergency Lighting Ballasts – NEB Series

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The NaviLite Fluorescent Emergency Ballast allows the same fixture to be used for both normal and emergency operation.

In the event of a power failure, the emergency ballast switches to the emergency mode and operates one or two of the existing lamps for a minimum of 90 minutes.

Each emergency ballast contains a battery, charger and inverter circuit in a single package. The emergency ballast can be mounted in the fixture wireway or on top of the fixture, and is UL Listed for factory installation or retrofit applications.

### Features

- Heavy duty steel case
- Dual voltage 120/277 VAC operation
- Includes push button test switch and AC power indicator
- Maintenance-free, high temperature sealed nickel cadmium battery
- Wide operating temperature range (0°C-55°C)
- Ballast can be mounted in fixture wireway or on top of fixture or remote mounted (consult specification sheet for remote mounting details)
- Listed for factory or field (retrofit) installation
- May be installed in switched or unswitched fixtures
- Requires unswitched AC power source for proper operation
- When operating two lamps in emergency mode, rated lumen output is divided evenly between the lamps
- See Lamp Compatibility Chart for supported lamp types



NEB650C



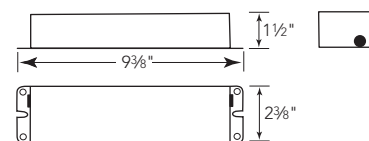
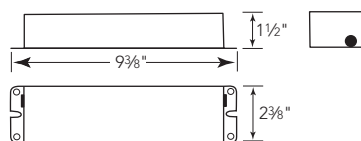
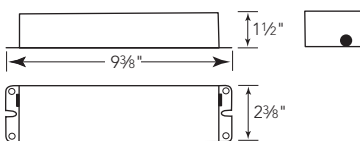
NEB500



NEB700

### Dimensions

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## Fluorescent Emergency Lighting Ballasts – NEB Series

### NEB Series Specifications – Lamp Compatibility Chart

Model Lumens	NEB650C 650	NEB500 500	NEB700 700	NEB1400 1400	NEB3000 3000
<b>Linear Lamps</b>					
Number of Lamps Supported					
2'-4' Rapid, Instant, or Energy Savings, T8-T12		1	1	1	1
2'-8' Rapid, Instant, or Energy Savings, T8-T12, HO, VHO			2	2	2
2'-8' Rapid, Instant, or Energy Savings, T8-T12, HO, VHO			1	1	1
20W - 40W Circline		1	1	1	1
20W - 40W Circline			2	2	2
<b>Compact Lamps</b>					
Number of Lamps Supported					
13, 18, 26 (4-Pin)	1	1	1	1	1
13W-42W Twin, Quad or Triple (4-pin)	1	1	1	1	1
40W Biax			1	1	1
40W Biax					2
50W Biax			1	1	1
55W Biax			1	1	1

Other lamp types may operate with these ballasts. Please consult factory for compatibility.

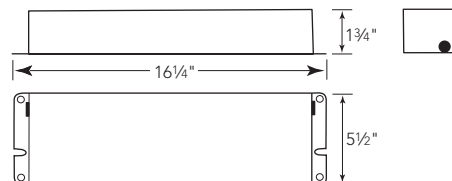
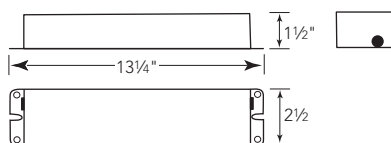


NEB1400



NEB3000

### Dimensions







# New York Approved Exit & Emergency Lighting



NaviLite New York Approved Exit Signs are created with the needs of our customers in mind. The result of this understanding is reflected in the aesthetically pleasing, easy to install, and energy conscious products that is the NaviLite brand.

**Rugged design – easy installation:** NaviLite New York Approved Exit Signs are constructed using the most durable materials such as heavy gauge steel and die cast aluminum. All materials are color stable, impact resistant, flame retardant and scratch resistant. Many NaviLite Exit Signs include a quick-connect feature and all feature field-configurable chevron directional indicators.

**Architectural styling and performance:** Soft, rounded edges and rich, subtle textures provide aesthetically pleasing solutions for exit lighting. NaviLite New York Approved LED Exit Signs employ custom diffusing systems to produce bright, uniform illumination in striking contrast to conventional exit signs.

**Energy savings:** NaviLite New York Approved Exit Signs utilize LEDs as a light source. LEDs save energy and reduce maintenance costs. Because they are not wasting electrical energy as heat, like typical light sources, LEDs are the most efficient electronic light source available for exit signs. This helps explain why LEDs have surpassed incandescent and fluorescent sources as the #1 choice of energy conscious consumers.

**Reduced maintenance:** One of the most significant components of exit sign operating cost is lamp maintenance. Because NaviLite New York Approved Exit Signs are constructed using LED illumination, maintenance costs are virtually eliminated. This, along with low energy consumption, has made LED exit signs the most popular choice for today's applications.



## Surface Mount Edge-Lit LED Exit Signs – NNYXES Series

### AC Only and Battery Backup

The New York Approved NNYXES Series is the most uncomplicated edge-lit sign to specify. Surface mount construction makes it easy to enjoy the aesthetic benefits of edge-lit design with simple J-box mounting.



#### Features

- Crystal clear acrylic face panel
- Mirrored divider provided on double face signs to simulate clear aesthetic
- Extruded aluminum housing
- Includes die cast aluminum canopy for top, back or end mounting
- Pre-drilled canopy attachment locations with easily removed hole covers
- 8" letters with 1" stroke width
- Full-size, chevron directional indicators
- Field-applied chevron directional indicators with pre-applied installation template
- Dual voltage 120/277VAC
- Maintenance-free 6V sealed NiCad battery (battery backup version)

#### Code Compliance

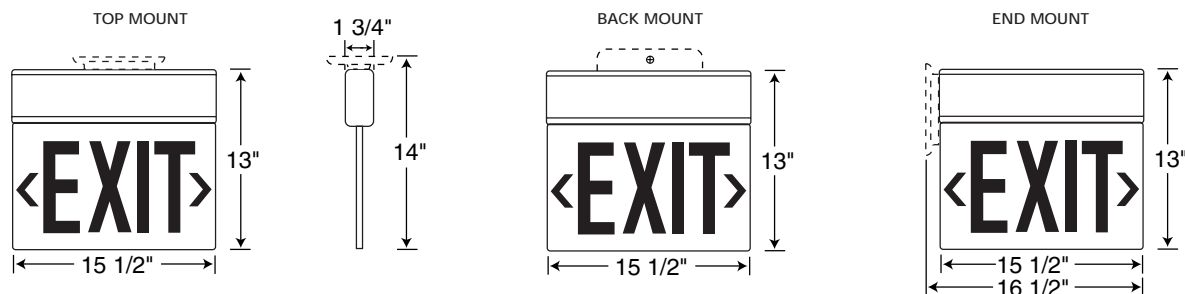
- UL 924
- NFPA 101 Life Safety Code compliant
- NEC and OSHA compliant
- New York City Approved
- Calendar No. 46932 and 47212

#### Ordering Information

Series	Operation	Number of Faces	Letter Color	Finish	Example Cat. #
NNYXES	B	1	R	AA	NNYXESB1RAA
NNYXES Series	Blank-AC only B-Battery Backup	1-Single Face 2-Double Face	R-Red	AA-Anodized Aluminum WH-White BL-Black	

For recessed version, consult factory

#### Dimensions



## Recessed Mount – NNYXERB Series Edge-Lit LED Exit Sign

Ideal for architectural applications with top ceiling access, the New York approved Recessed Mount Edge-Lit LED Exit Signs offer specification grade aesthetics with in-field installation flexibility.



### Features

- Crystal clear acrylic face panel
- Mirrored divider provided on double face signs to simulate clear aesthetic
- Aesthetically pleasing aluminum ceiling trim plate
- 8" letters with 1" stroke width
- Full size, field-applied chevron directional indicators with pre-applied installation template
- Engraved letters increase visibility
- Dual voltage 120/277 VAC operation
- Maintenance-free 6V NICAD (battery backup versions only)

### Code Compliance

- UL Listed
- NFPA 101 Life Safety Code compliant
- NEC and OSHA compliant
- New York City Approved
- Calendar No. 47212

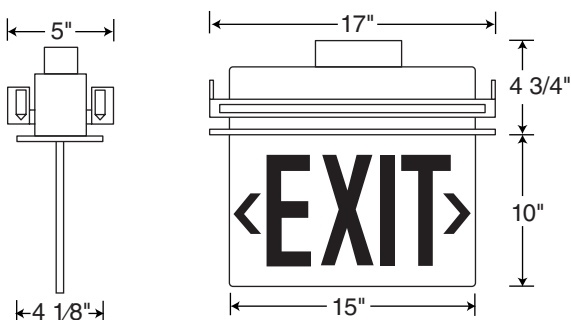
### Mounting

- May be recessed mounted on drop ceiling applications –requires top ceiling access
- Includes telescoping hanger bars
- Vertically adjustable to accommodate varying ceiling thicknesses

### Ordering Information

Series	Operation	Number of Faces	Letter Color	Finish	Example Cat. #
NNYXER	B	1	R	AA	NNYXERB1RAA
NNYXER Series	Blank - AC only B - Battery Backup	1-Single Face 2-Double Face	R-Red	AA-Anodized Aluminum WH-White BL-Black	

### Dimensions





## Die Cast Aluminum LED Exit Sign – NNYXD Series AC Only and Battery Backup



The New York Approved NNYXD Series is ideal for applications that require the durability of metal construction in an economical package. All NNYXD Series signs include a second faceplate for universal single/double face applications and canopy for universal top, end, or back mounting.



### Features

- Architectural-grade, die cast aluminum housing and faceplate
- Includes die cast aluminum canopy for top or end mounting
- Universal mounting pattern knockouts for J-box mounting
- Pre-drilled canopy attachment locations with easily removed hole covers
- Integral wiring channels
- Gently arched faceplate snaps into housing without tools
- Second faceplate included to field-convert from single to double face
- 8" letters with 1" stroke width
- Full-size, 3/4" wide chevron directional indicators are field selectable
- Standard Self-Test and Self-Diagnostics (battery backup version only)
- Dual voltage 120/277VAC
- Maintenance-free 4.8V sealed, nickel cadmium battery (battery backup version)

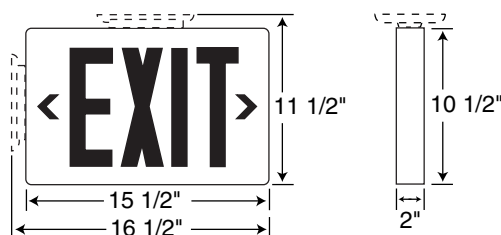
### Code Compliance

- UL 924
- NFPA 101 Life Safety Code compliant
- NEC and OSHA compliant
- New York City Approved
- Calendar No. 46932

### Ordering Information

Series	Operation	Number of Faces	Letter Color	Finish	Options	Example Cat. #
NNYXD	B	3	R	BAB	SD	NNYXDB3RBABSD
NNYXD Series	Blank-AC only B-Battery Backup	3-Universal Single/ Double Face	R-Red	BAB-Brushed Aluminum Face/ Black Housing WH-White on White BL-Black on Black	Blank-AC only SD-Self-Diagnostics (Battery Backup version only)	

### Dimensions





## Steel LED Exit Sign – NNYXS Series AC Only and Battery Backup

The New York Approved NNYXS Series is ideal for applications that require the durability of metal construction in an economical package. All NNYXS Series signs include a second faceplate for universal single/double face applications and canopy for universal top, end, or back mounting.



### Features

- Rugged, heavy duty 20-gauge die-formed steel construction
- Universal mounting pattern knockouts in backplate for back mounting
- Second faceplate included for double face applications
- 8" letters with 1" stroke width
- Chevron directional indicator knockouts
- Corrosion-resistant polyester powder coat paint
- Dual voltage 120/277VAC
- Maintenance-free 3.6V nickel cadmium battery (battery backup version)

### Code Compliance

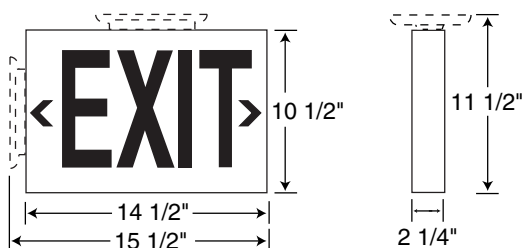
- UL 924
- NFPA 101 Life Safety Code compliant
- NEC and OSHA compliant
- New York City Approved
- Calendar No. 46932

### Ordering Information

Series	Operation	Number of Faces	Letter Color	Finish	Example Cat. #
NNYXS	AC	3	R	WH	NNYXSB3RWH
NNYXS Series	Blank-AC only B-Battery Backup	3-Universal Single/ Double Face	R-Red	WH-White	

Consult factory for other finishes

### Dimensions



## Recessed Mount – NNYXERB Series Edge-Lit LED Exit Sign Battery Backup



The New York Approved NNYXSC Series offers unsurpassed value in an aesthetically pleasing design. All NNYXSC Series signs include 3 emergency lighting heads.



### Features

- Includes three lighting heads, combining exit signage with the emergency lighting function for a convenient, comprehensive solution
- Rugged, heavy duty 20-gauge die formed steel construction
- Lighting heads made from high impact thermoplastic
- Universal mounting pattern knockouts in backplate for back mounting
- 8" letters with 1" stroke width
- Chevron directional indicator knockouts
- Includes three 6V, 12W lighting heads

- Heads are fully adjustable for comprehensive lighting coverage
- Maintenance-free 6V sealed lead acid battery
- Dual voltage 120/277 VAC

### Code Compliance

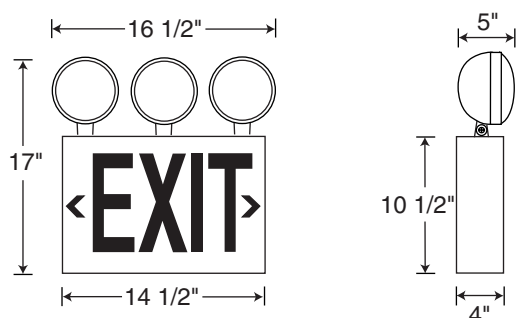
- UL 924
- NFPA 101 Life Safety Code compliant
- NEC and OSHA compliant
- New York City Approved
- Calendar No. 46932

### Ordering Information

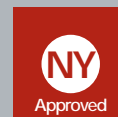
Series	Number of Faces	Letter Color	Finish	Number of Heads	Example Cat. #
NNYXSC	1	R	WH	3	NNYXSC1RWH3
NNYXSC Series	1-Single	R-Red	WH-White	3-3 Heads	

Consult factory for other finishes

### Dimensions



# NaviLite New York Approved Emergency Lights



NaviLite offers a comprehensive selection of New York emergency lighting solutions to meet the variety of applications you may encounter. All feature rugged design and easy installation along with performance that is second to none. Many of the products possess remote capability, offering more design flexibility for demanding environments.

## **NaviLite New York Approved Emergency Lighting features include:**

- Rugged design with contemporary styling
- Fast, easy installation
- Dual voltage 120/277 VAC operation
- Fully adjustable lighting heads enabling them to aim in any direction







## Emergency Light for 6 Volt Emergency Operation – NNY6 Series



NaviLite NNY6 Series New York Emergency Lights are designed for efficiency and ease of installation. Their rugged design meets New York City standards and provides dependable operation. These units are completely self contained and fully automatic.



### Features

- Rugged, heavy duty design
- Durable 20 gauge steel housing
- High Impact Thermoplastic lighting heads
- Dual voltage 120/277VAC
- Solid state charging and switching
- Brownout protection
- Battery Low Voltage disconnect
- Overload and short circuit protection
- AC power indicator and test switch

- Maintenance-free 6V sealed lead calcium battery
- Supplied with 6V, 9W incandescent wedge base lamps

### Code Compliance

- UL 924
- NFPA 101 Life Safety Code compliant
- NEC and OSHA compliant
- New York City Approved
- Calendar No. 46932

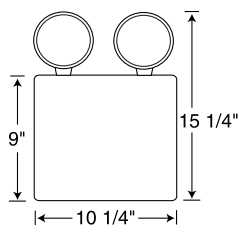
### Ordering Information

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts	
				1 1/2 hrs.	2 hrs.
NNY618WH2	White	6V	2 x 9W	18W	-
NNY627WH3	White	6V	3 x 9W	27W	18W

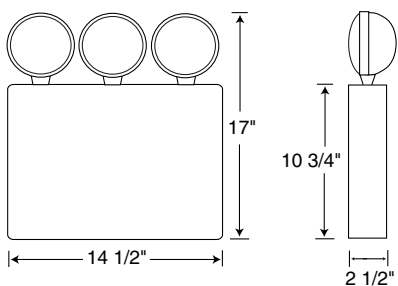
Consult factory for other finishes

### Dimensions

#### NNY618



#### NNY627



## Emergency Light for 12 Volt Emergency Operation – NNY12 Series



NaviLite NNY12 Series New York Emergency Lights are designed for efficiency and ease of installation. Their rugged design meets New York City standards and provides dependable operation. These units are completely self contained and fully automatic.



### Features

- Rugged, heavy duty design
- 20 gauge steel housing and faceplate
- Thermoplastic lighting heads
- Dual voltage 120/277VAC
- Solid state charging and switching
- Brownout protection
- Battery Low Voltage disconnect
- Overload and short circuit protection
- AC power indicator and test switch

- Maintenance-free 6V sealed lead calcium battery (2 included, connected in series to provide 12V operation)
- Supplied with 12V, 12W incandescent wedge base lamps

### Code Compliance

- UL Listed
- NFPA 101 Life Safety Code compliant
- NEC and OSHA compliant
- New York City Approved
- Calendar No. 46932

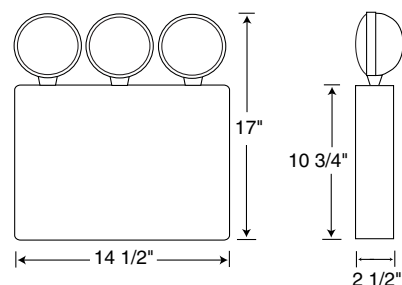
### Ordering Information

Catalog Number	Finish	Output Voltage	Lamp Wattage	Rated Output Watts		
				1 1/2 hrs.	2 hrs.	3 hrs.
NNY1250WH3	White	12V	3 x 12W	50W	36W	24W

Consult factory for other finishes

### Dimensions

#### NNY1250



# Accessories

## Exit & Emergency Lighting

NaviLite offers a variety of accessories to protect your exit & emergency lighting investment. We also offer LED Retrofit Kits for exit signs making it easy to enjoy the money saving benefits and uniform illumination of LED light sources without having to replace existing fixtures.



## Polycarbonate Vandal Shields – NVS Series

Clear polycarbonate Vandal Shields provide an extra level of protection from flying objects and vandalism without obscuring the visibility of exit signs or diminishing the performance of emergency lights. Includes mounting hardware. Ideal for use in schools, gymnasiums and athletic centers and any area where protection from flying objects are necessary.



**NVS1**



**NVS2**

### Ordering Information

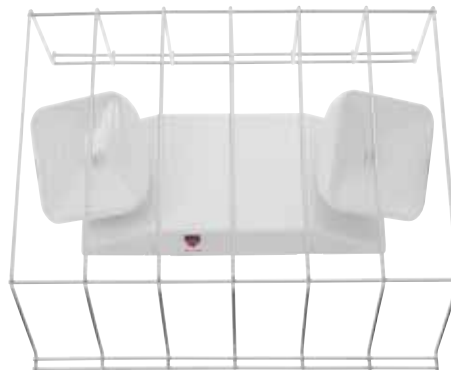
Catalog Number	For Use With Series	Dimensions H x W x D
NVS1	NXD, NXP <sup>1</sup> , NXS, NXT	11½" x 13" x 2½"
NVS2	NXD, NXES, NXP <sup>1</sup> , NXS, NXT, N1, N2, N3, N8 <sup>2</sup>	15½" x 22½" x 7½"

<sup>1</sup>NVS1 is suitable for non-HO versions – NVS2 is required for HO versions

<sup>2</sup>NVS2 must be oriented vertically to accommodate N8 dimensions

## Wire Guards – NWG Series

Chrome plated, 0.150" diameter steel Wire Guards protect exit signs and emergency lights from flying objects. Wires are spaced 2.5" apart making it easy to access fixtures to perform periodic testing. Includes mounting hardware. Ideal for use in gymnasiums and athletic centers and any area where protection from flying objects is necessary.



**NWG1**



**NWG2**

### Ordering Information

Catalog Number	For Use With Series	Dimensions H x W x D
NWG1	NXD, NXES, NXP <sup>3</sup> , NXS, NXT, N1, N2, N3, N4	13½" x 15" x 6"
NWG2	NXPC	13½" x 30" x 6"

<sup>3</sup>NWG1 is not suitable for NXPC combo versions – NWG2 is required for NXPC combo versions

## LED Retrofit Kits for Exit Signs – NXR Series

LED Retrofit Kits are perfect for installations where the existing exit sign is still serviceable but consumes far too much energy due to its high wattage lamps. Screw-in retrofit kits are as simple to install as changing a lamp – anyone can do it! – thus minimizing labor costs. Hard-wire retrofit kits are especially useful in 277V applications or where the local authority requires a more permanent conversion.

### Screw-In Kit Features

- Use for 120V applications only
- Red or green versions
- Consumes only 2.8W total per kit
- Designed to fit directly into candelabra base sockets
- Includes socket adapters to fit intermediate base or bayonet base sockets
- LED module height is 5½" (add ¼" when using adapters)



Screw-In Kit

### Hard-Wire Kit Features

- Use for 120V or 277V applications
- Red or green versions
- Consumes only 2.8W total per kit
- LED modules can be repositioned to optimize sign uniformity
- Kits come complete with mounting hardware
- LED module height is 5½"



Hard-Wire Kit

### Ordering Information

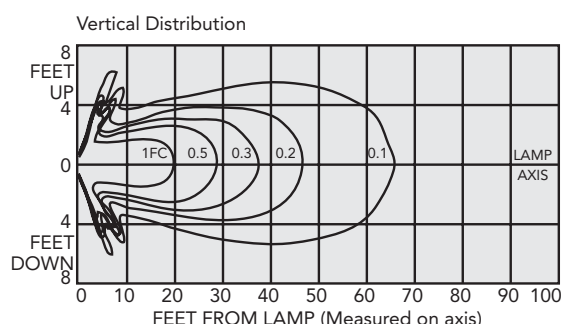
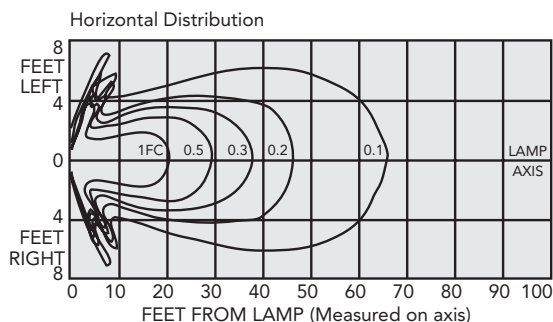
Series	Installation	LED Color	Example Cat. #
NXR	S	R	NXRSR
NXR Series	S-Screw-In H-Hard-Wire	R-Red G-Green	



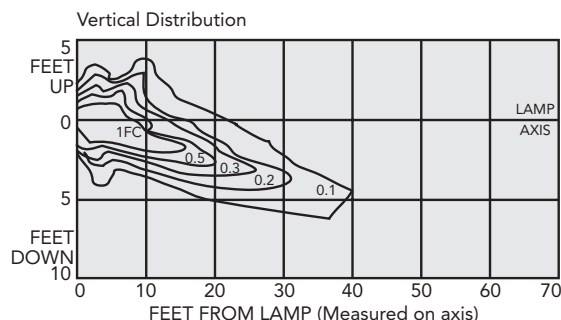
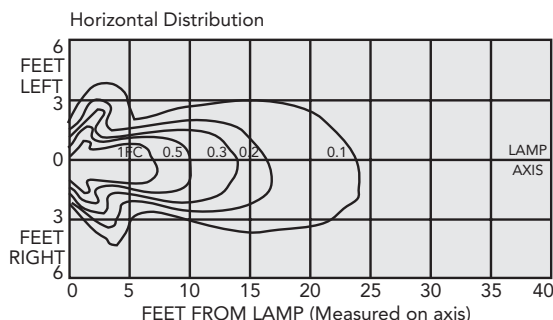
## Lamp Information / Photometric Data

The following iso footcandle diagrams are provided to enable a reasonable prediction of light levels that might be anticipated at various points relative to the light source. Where head styles vary using an identical lamp (square, round, etc.), different distributions may result and are, therefore, shown in each circumstance. Actual light levels may differ due to cavity reflectance and manufacturing variables; the diagrams should be used only to estimate the type and quantity of fixtures required to meet illumination requirements. Actual light levels should be verified following installation to determine code compliance.

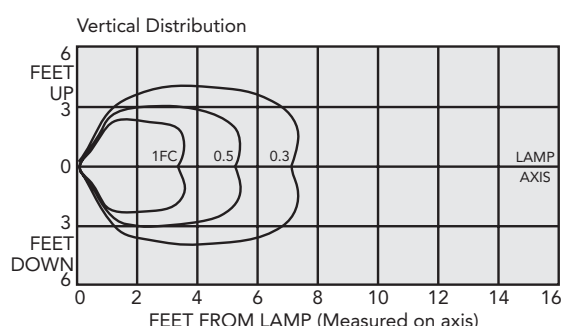
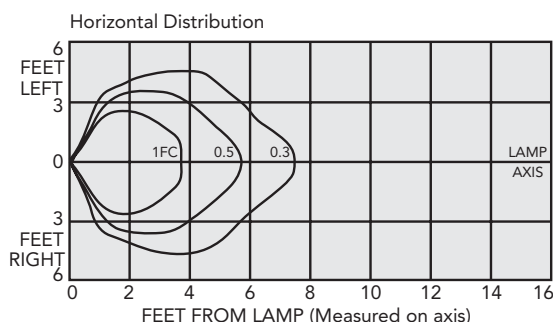
**6V, 5W Halogen MR16 Lamp, MR16 Head (Replacement Lamp NL6V5MR)**



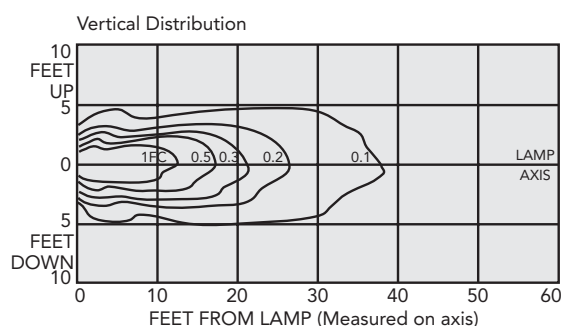
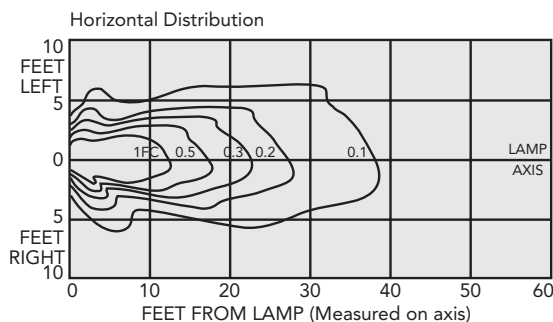
**6V, 5.4W Tungsten Wedge Base Lamp (ANSI 939), Square Head (Replacement Lamp NL6V5WB)**



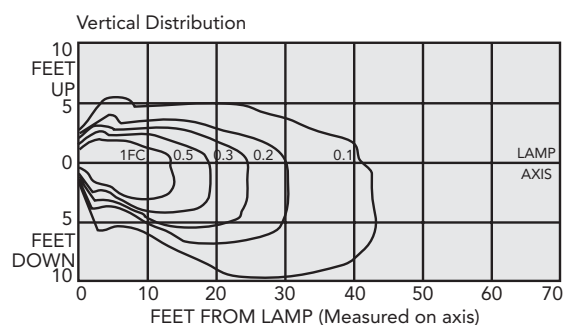
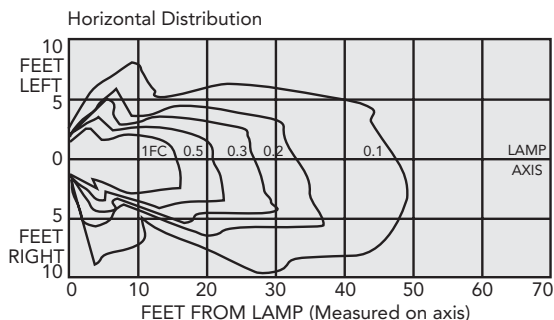
**6V, 5.4W Tungsten Wedge Base Lamp (ANSI 939), Fixed Optics (Replacement Lamp NL6V5WB)**



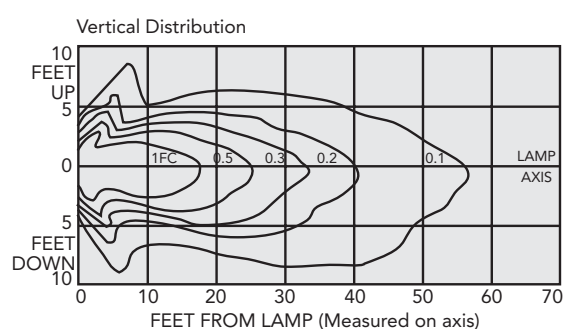
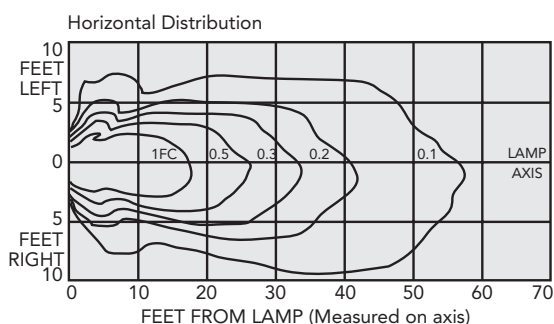
**6V, 5.4W Tungsten Wedge Base Lamp (ANSI 939), Round Head (Replacement Lamp NL6V5WB)**



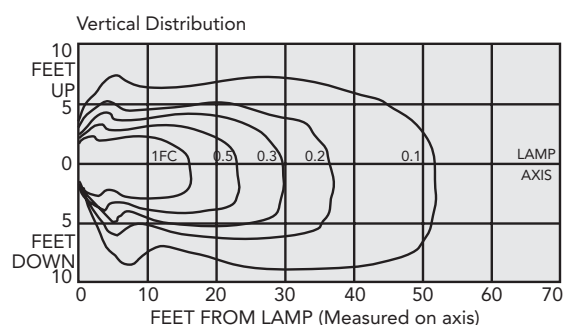
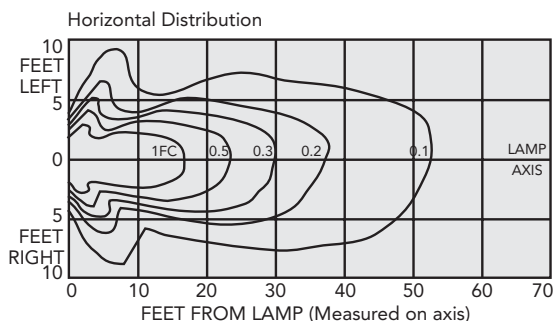
**6V, 7.2W Tungsten Wedge Base Lamp (ANSI 927), Round Head (Replacement Lamp NL6V7WB)**



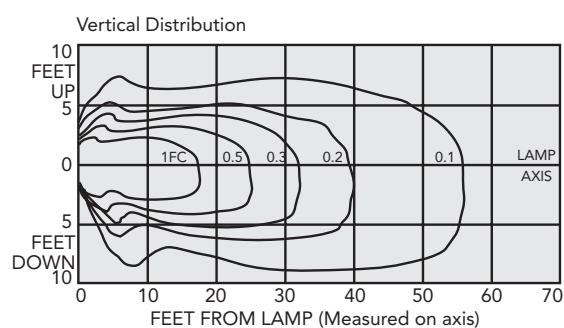
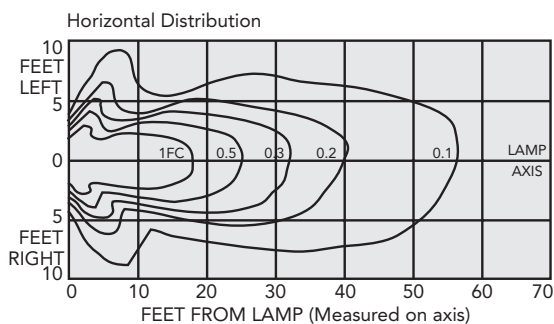
**6V, 9W Tungsten Wedge Base Lamp (ANSI 908), Round Head (Replacement Lamp NL6V9WB)**



**12V, 9W Tungsten Wedge Base Lamp (ANSI 915), Round Head (Replacement Lamp NL12V9WB)**



**12V, 12W Tungsten Wedge Base Lamp (ANSI 912), Round Head (Replacement Lamp NL12V12WB)**



## Voltage Drop / Wire Selection Guide

### Determining Wire Size

The following information is provided to assist in designing proper emergency lighting systems effectively and economically by using the smallest permissible wire size for load circuits. When remote lighting fixtures are connected to emergency lighting units, circuit runs must be of sufficient size to maintain a proper operating voltage to all lamps. The National Electrical Code limits voltage to drop to a maximum of 5% of nominal. The accompanying table gives the maximum length of wire run based on systems voltage, wire gauge and total wattage on the run. **To determine the maximum length of a wire run not listed**, divide the value of the load in watts into the constant listed at the bottom of each row. For example, the maximum wire run length for #10 wire on a 12 volt system, with a 63 watt load is  $3397 \div 63$ , or 53 feet.

Conversely, **to determine the maximum load on a run of known length**, divide the run length into the constant. For example, a 100 foot run of #10 wire on a 12 volt system can be loaded to,  $3397 \div 100$ , or 33 watts; on #8 wire,  $5403 \div 100$ , or 54 watts.

### Longer Wire Runs

The wiring distances give the maximum length of a low voltage circuit, assuming that the entire load is concentrated at the end of the circuit. If loads are uniformly spaced along the circuit path (equal watts, equal spacing distances), the lengths in the table may be increased, based on number of fixtures on a given circuit, by means of the chart and formula below. For example, a 60 foot long, 12 volt circuit has five 9 watt heads spaced 12 feet apart. According to the wire run table, #10 wire must be used (at 75 feet for a 5% voltage drop). However, by multiplying the 47 feet for #12 wire by 1.67 (5 fixtures equally spaced multiplier), a 78 foot wire run is acceptable, so #12 wire may be used and still meet the 5% voltage drop limitation.

Number of Fixtures	2	3	4	5	6	n
Multiply Feet By	1.33	1.5	1.6	1.67	1.7	$2n/(n+1)$

Total Watts on Wire Run	Wiring Distance in Feet (for maximum voltage drop of 5%)								
	6 Volt System Wire Size				12 Volt System Wire Size				
	#12	#10	#8	#6	#12	#10	#8	#6	#4
6	89	141	225	357	356	566	900	1431	2276
8	66	106	168	268	267	424	675	1073	1707
9	59	94	150	238	237	377	600	954	1517
10	53	84	135	214	213	339	540	859	1366
12	44	70	112	178	178	283	450	715	1138
16	33	53	84	134	133	212	337	536	853
18	29	47	75	119	118	188	300	477	758
24	22	35	56	89	89	141	225	357	569
25	21	33	54	85	85	135	216	343	546
27	19	31	50	79	79	125	200	318	505
30	17	28	45	71	71	113	180	286	455
36	14	23	37	59	59	94	150	238	379
42	12	20	32	51	50	80	128	204	325
45	11	18	30	47	47	75	120	190	303
48	11	17	28	44	44	70	112	178	284
50	10	16	27	42	42	67	108	171	273
75	7	11	18	28	28	45	72	114	182
100	5	8	13	21	21	33	54	85	136
Constant	534	849	1350	2148	2137	3397	5403	8590	13660

Note: The smallest permissible wire size for systems under 50 volts is #12 wire for emergency lighting equipment under Article 720-4 of the National Electrical Code.

# Life Safety Code

## Excerpts from the NFPA 101®

### SECTION 7.9 EMERGENCY LIGHTING

#### 7.9.1 General.

**7.9.1.1\*** Emergency lighting facilities for means of egress shall be provided in accordance with this section 7.9 for the following:

- (1) Buildings or structures where required in Chapters 11 through 42.
  - (2) Underground and windowless structures as addressed in section 11.7.
  - (3) High-rise buildings as required by other sections of this code.
  - (4) Doors equipped with delayed egress locks.
  - (5) The stair shaft and vestibule of smoke proof enclosures which shall be permitted to include a standby generator that is installed for the smoke proof enclosure mechanical ventilation equipment and used for the stair shaft and vestibule emergency lighting power supply.
- For the purposes of this requirement, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of this requirement, exit discharge shall include only designated stairs, ramps, aisles, walkways, and escalators leading to a public way.

**7.9.1.2** Where maintenance of illumination depends on changing from one energy source to another, a delay of not more than 10 seconds shall be permitted.

#### 7.9.2 Performance of System.

**7.9.2.1\*** Emergency illumination shall be provided for not less than 1 1/2 hours in the event of failure of normal lighting. Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 footcandle (10 lx) and, at any point, not less than 0.1 footcandle (1 lx) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to not less than an average of 0.6 footcandle (6 lx) and, at any point, not less than 0.06 footcandle (0.6 lx) at the end of the 1 1/2 hours. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

**7.9.2.2\*** The emergency lighting system shall be arranged to provide the required illumination automatically in the event of any of the following: (1) Interruption of normal lighting such as any failure of public utility or other outside electrical power supply. (2) Opening of a circuit breaker or fuse. (3) Manual act(s), including accidental opening of a switch controlling normal lighting facilities.

**7.9.2.4\*** Battery-operated emergency lights shall use only reliable types of rechargeable batteries provided with suitable facilities for maintaining them in properly charged condition. Batteries used in such lights or units shall be approved for their intended use and shall comply with NFPA 70, National Electrical Code®.

**7.9.2.5** The emergency lighting system shall be either continuously in operation or shall be capable of repeated automatic operation without manual intervention.

**7.9.3** Periodic Testing of Emergency Lighting Equipment. A functional test shall be conducted on every required emergency lighting system at 30-day intervals for not less than 30 sec. An annual test shall be conducted for a 1-1/2 hour duration. Equipment shall be fully operational for the duration of the test. Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

Exception: Self-testing/self-diagnostic, battery-operated emergency lighting equipment that automatically performs a test of not less than 30 sec. and diagnostic routine not less than once every 30-days and indicates failure by status indicator shall be exempt from the 30-day functional test, provided that a visual inspection is performed at 30-day intervals.

### SECTION 7.10 MARKING OF MEANS OF EGRESS

**7.10.1.2\*** Exits. Exits, other than main exterior exit doors that obviously and clearly are identifiable as exits, shall be marked by an approved sign readily visible from any direction of exit access.

**7.10.1.4\*** Exit Access. Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach it is not readily apparent to the occupants. Sign placement shall be such that no point in the exit access corridor is in excess of 100 ft (30 m) from the nearest externally illuminated sign and is not in excess of the marked rating for internally illuminated signs. Exception: Signs in exit access corridors in existing buildings shall not be required to meet the placement distance requirements.

**7.10.1.5\*** Floor Proximity Exit Signs. Where floor proximity exit signs are required by Chapters 11 through 42, signs shall be placed near the floor

level in addition to those signs required for doors or corridors. These signs shall be illuminated in accordance with 7.10.5. Externally illuminated signs shall be sized and in accordance with 7.10.6.1. The bottom of the sign shall be not less than 6 in. (15.2 cm) but not more than 8 in. (20.3 cm) above the floor. For exit doors, the sign shall be mounted on the door or adjacent to the door with the closest edge of the sign within 4 in. (10.2 cm) of the door frame.

**7.10.1.6\*** Floor Proximity Egress Path Marking. Where floor proximity egress path marking is required in Chapters 11 through 42, a listed and approved floor proximity egress path marking system that is internally illuminated shall be installed within 8 in. (20.3 cm) of the floor. The system shall provide a visible delineation of the path of travel along the designated exit access and shall be essentially continuous, except as interrupted by doorways, hallways, corridors, or other such architectural features. The system shall operate continuously or at any time the building fire alarm system is activated. The activation, duration, and continuity of operation of the system shall be in accordance with 7.9.2.

**7.10.1.7\*** Visibility. Every sign required by Section 7.10 shall be located and of such size, distinctive color, and design that it is readily visible and shall provide contrast with decorations, interior finish, or other signs. No decorations, furnishings, or equipment that impairs visibility of an exit sign shall be permitted. No brightly illuminated sign (for other than exit purposes), display, or object in or near the line of vision of the required exit sign that could detract attention from the exit sign shall be permitted.

**7.10.2\*** Directional Signs. A sign complying with 7.10.3 with a directional indicator showing the direction of travel shall be placed in every location where the direction of travel to reach the nearest exit is not apparent.

**7.10.3\*** Sign Legend. Sign required by 7.10.1 and 7.10.2 shall have the word EXIT or other appropriate wording in plainly legible letters.

**7.10.4\*** Power Source. Where emergency lighting facilities are required by the applicable provisions of Chapters 11 through 42 for individual occupancies, the signs, other than approved self-luminous signs, shall be illuminated by the emergency lighting facilities. The level of illumination of the exit sign shall be in accordance with 7.10.6.3 or 7.10.7 for the required emergency lighting duration as specified in 7.9.2.1. However, the level of illumination shall be permitted to decline to 60 percent at the end of the emergency lighting duration.

#### 7.10.5 Illumination of Signs.

**7.10.5.1\*** General. Every sign required by 7.10.1.2 or 7.10.1.4, other than where operations or processes require low lighting levels, shall be suitably illuminated by a reliable light source. Externally and internally illuminated signs shall be legible in both the normal end emergency lighting mode.

**7.10.5.2\*** Continuous Illumination. Every sign required to be illuminated by 7.10.6.3 and 7.10.7 shall be continuously illuminated as required under the provisions of section 7.8.  
Exception: Illumination for signs shall be permitted to flash on and off upon activation of the fire alarm systems.

#### 7.10.7 Internally Illuminated Signs.

**7.10.7.1** Listing. Internally illuminated signs, other than approved existing signs, or existing signs, or existing signs having the required wording in legible letters not less than 4 in. (10.2 cm) high, shall be listed in accordance with UL 924, Standard for Safety Emergency Lighting and Power Equipment. Exception: This requirement shall not apply to signs that are in accordance with 7.10.1.3 and 7.10.1.5.

**7.10.7.2** Photoluminescent Signs. The face of a photoluminescent sign shall be continually illuminated while the building is occupied. The illumination levels on the face of the face of the photoluminescent sign shall be in accordance with its listing. The charging illumination shall be a reliable light source as determined by the authority having jurisdiction. The charging light source shall be of a type specified in the product markings.

#### 7.10.9 Testing and Maintenance.

**7.10.9.1** Inspection. Exit signs shall be visually inspected for operation of the illumination sources at intervals not to exceed 30 days.

**7.10.9.2** Testing. Exit signs connected to or provided with a battery-operated emergency illumination source, where required in 7.10.4, shall be tested and maintained in accordance with 7.9.3.

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# Replacement Parts

## Catalog #

## Description

### Replacement Lamps

RP-NL6V5WB	Replacement lamp, 6V 5.4W, wedge base. For N4 series.
RP-NL6V5WB	Replacement lamp, 6V 5.5W, wedge base. For N1, N2, N7WH, and remote heads NRSQ, NRRD, NRWP series.
RP-NL6V54WB-KYPT	Replacement lamp, 6V 5.4W, wedge base. For N1, N2, N7WH, and remote heads NRSQ, NRRD, NRWP series.
RP-NL6V72WB	Replacement lamp, 6V 7.2W, wedge base. For N6, N8, and remote heads NRSQ, NRRD, NRWP series.
RP-NL6V9WB	Replacement lamp, 6V 9W, wedge base. For NNY618, NNY627, and remote heads NRSQ, NRRD series.
RP-NL6V10WB	Replacement lamp, 6V 10W, wedge base. For N4 HO series with 10W lamps.
RP-NL6V12WB	Replacement lamp, 6V 12W, wedge base. For NNYXSC combo, and remote heads NRSQ and NRRD series.
RP-NL12V72WB	Replacement lamp, 12V 7.2 W, wedge base. For remote heads NRSQ and NRRD series.
RP-NL12V9WB	Replacement lamp, 12V 9W, wedge base. For N12 series, and remote heads NRSQ and NRRD series.
RP-NL12V12WB	Replacement lamp, 12V 12W, wedge base. For NNY1250 series, and remote heads NRSQ and NRRD series.
RP-NL6V5MR	Replacement lamp, 6V 5W, MR16. For N3 series and remote heads NRM series.

### Replacement Batteries

RP-NL6V45ALC	Replacement Seal Lead Acid battery, 6V 4.5Ah. For N1, N2, N3, N4, N7 series emergency lights and NXPC (non HO).
RP-NL6V7ALC	Replacement Sealed Lead Acid battery, 6V 7Ah. For N1 (HO version), N3 (HO version), N4 (HO version), NNY618, and NNY1250 emergency units.
RP-NL6V10ALC	Replacement Sealed Lead Acid Battery, 6V 10Ah. For N6, N12, N8, NNY627 series emergency lights.
RP-NL6V12ALC	Replacement Sealed Lead Acid battery, 6V 12Ah. For NNYXSC combo.
RP-NL6V23ALC	Replacement Sealed Lead Acid battery, 6V 2.3Ah. For NXESB series.
RP-NL48V04ANC	Replacement NiCad battery, 4.8V 400mAh. For NXPB series and NXPB with Self Diagnostics.
RP-NL48V05ANC	Replacement NiCad battery, 4.8V 500mAh. For NXESB and NXERB series with NiCad battery.
RP-NL4807ANC	Replacement NiCad battery, 4.8V 700mAh. For NXPB (non HO), NNYXDB, NXWBGY (green) series exit signs.
RP-NL6V45ANC	Replacement NiCad battery, 6V 4.5Ah. For NXWC series (wet location combos).







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