

INSTALLATION INSTRUCTIONS FOR PHOTOLUMINESCENT EXIT SIGNS LISTED TO UL924



RATED VIEWING DISTANCE IS 75 FEET

You have purchased an EverGlow[®] brand EXIT Sign manufactured to the highest quality standards. This sign has been certified by Underwriters Laboratories to comply with the UL 924 performance standard. This EverGlow[®] EXIT Sign contains no toxic, radioactive or flammable materials. Our sign is made with safety grade photoluminescent pigments, durable one-piece aluminum construction and supplied with two directional chevrons and stainless steel fasteners. It will provide an infinite number of recharge-glow cycles and the special protective coating will resist moisture.

CAUTION: EXTERNAL ILLUMINATION SOURCE REQUIRED

Install only in a location where a minimum of 5 foot candles (54 lux) of LED, Fluorescent, Metal Halide or Mercury Vapor lighting is available on the face of the sign at all times of building occupancy.

The external lighting source must be deemed reliable and supplied by a circuit not controlled by automatic timers or sensors that turn off the charging light when the building is occupied, and whose controls are accessible only to authorized personnel.

MAINTENANCE

Lighting levels on the sign are to be reassessed after any changes in external lighting types or levels to determine that this sign is still being illuminated in accordance to its listing.

The sign face should be kept clean with a periodic wipe with a damp cloth.

Perform periodic visibility tests in accordance with local code requirements.

INSTALLATION

Use stainless steel or corrosion resistant mechanical fasteners to affix the sign to the building.

Install indoors only in a location where not exposed to direct sunlight, liquid spray or temperatures outside the range of 50° -104° F (10° - 40° C).

DIRECTIONAL INDICATORS

Two chevrons are included for use as needed and should only be affixed in the similarly marked area(s) on the sign face. Do not use two chevrons to indicate the same direction. **Apply the chevrons without touching the adhesive.**

SAVE THESE INSTRUCTIONS FOR FIRE SAFETY INSPECTIONS



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TECHNICAL INFORMATION

FOR

PHOTOLUMINESCENT EXIT SIGNS LISTED TO UL924

Underwriters Laboratories has completed a review of all EverGlow Photoluminescent EXIT Signs listed to the UL 924 (US) and CAN/ULC-S572 performance standards. The results of their testing are summarized in the table below. The most appropriate luminaires to properly charge photoluminescent signs and markings are at the top of this table. The energy emitted by the luminaire type, and absorbed by the EverGlow sample, decreases toward the bottom of this table. This data is valid for all UL 924 listed EXIT Signs with EverGlow HI450 luminance level.

Luminaire Type	Minimum Charging Illumination	Maximum Afterglow Duration	Minimum Color Temperature	Lighting Industry Nomenclature
Fluorescent	5 ft-c	90 minutes	4,000 K	cool white
Metal Halide			4,000 – 4,500 K	
Mercury-Vapor			3,500 – 4,000 K	
LED (blue LED with phosphor)			4,000 K	cool white
LED	does not adequately charge SrAl pigments for use in EXIT Signs		2,700 – 3,000 K	soft or warm white to bright white
Halogen			2,700 – 3,000 K	soft or warm white to bright or cool white
Incandescent			2,700 – 3,000 K	
Sodium-Vapor			1,800 - 2,700 K	warm white
Neon			various	various

EverGlow uses strontium aluminate (SrAl) photoluminescent pigments that absorb and store energy from appropriate artificial lighting and sunlight. Appropriate artificial lighting is any luminaire that emits sufficient energy in the visible blue or invisible UV portion(s) of the electromagnetic spectrum, or both. Fluorescent, Mercury Vapor and Metal Halide lamps all produce energy in the blue and UV regions of the spectrum; they create light making a blue spark between two electrodes. Incandescent and Halogen lamps create light by heating a wire filament until it glow red, in a vacuum or halogen gas atmosphere. Halogen lamps emit more blue light than standard incandescent lamps; they emit no energy in the UV region.

LED luminaires made with a blue LED and phosphor coating emit energy in the visible blue region of the spectrum but no energy in the UV. This discussion does not include LED luminaires using an RGB configuration. Because LED luminaires emit suitable energy only in the visible blue region of the spectrum, these luminaires do not charge photoluminescent signs and markings as well as cool white fluorescent lighting. EverGlow has tested LED luminaires from several manufacturers, typically advertised with color temperatures of 4,000 – 5,000 K and with advertised CRI of 80 or higher. The measured luminance on all photoluminescent samples charged using any LED luminaire is measurably lower than samples charged with our control fluorescent lamp (4,000 K, 48 inches long).

EverGlow recommends that all projects using LED luminaires as the primary charging source for code approved photoluminescent EXIT Signs be designed very carefully so they provide minimum illumination of 5 ft-c when measured on the face of the sign. If original fluorescent lighting is being replaced with LED luminaires, more LED luminaires may need to be installed or the spacing between luminaires may need to be changed or LED luminaires with higher lumen output may need to be installed to provide greater than the minimum illumination when measured on the face of the EXIT Sign.