



**Emergency Evacuation LUMINESCENT PROFILES
in Concrete Pour Insertion or Retrofit (flat surface fix) Lenses**

NEW – LUMINOUS EVACUATION PATHWAY SYSTEM

An extruded self illuminating strip in a protective, clear, polycarbonate lens for concrete pour insertion or flat surface rebate/retrofit (using adhesive/epoxy fix) profile - an emergency ‘ribbon of light’ with no radioactivity or power connections.

Materials – Protective Lens Profiles – clear, halogen free, polycarbonate (UL94V-2 Grade burn test ~ low flammability) with high impact and scratch resistance

- Encapsulated Luminous 2.2 mm x 13 mm Polypropylene Base Strip
- Encapsulated Luminous 2.0 mm Polypropylene Base Rod
- LumiNova® metal oxide phosphorescent

LUMINOSITY TEST REPORT

MATERIAL – 10 mm wide polypropylene luminescent strip (PPN-10 and PPN-30)
PPN-10 a nominal 10% pigment and **PPN-30** a nominal 30% pigment formulation

EXCITATION CONDITIONS: Metal halide lamp, 120 lux for 30 minutes

Test Result

Time (minutes)	Afterglow luminance (mcd/m ²)	
	PPN-10	PPN-30
10	100.0	197.0
30	33.5	65.9
60	15.3	29.8
140	5.3	10.7
180	3.7	7.4

Explanations **mcd/m²** mili candela per square metre
 An after glow luminance of 0.3 mcd/m² is 100 times the threshold of human visual perception



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This '**WAYOUT**' lenses revolutionise safety by providing a superior glow-in-the-dark ribbon of light, with high initial brightness and continuous long afterglow without the aid of any radioactive substances or power source.

When power and emergency lighting fail and occupants of a building, vessel or mass transit underground location must be evacuated, there is a likelihood of panic with associated increased accidents, injuries and loss of life

Panic results when people are disorientated by immediate total darkness; to assist orientation **WAYOUT lenses** provide an unpowered, no maintenance, immediately identifiable escape route.

Under normal daily conditions, the unique glow formulation causes an afterglow brightness increase as light source intensity increases due to a high capacity to absorb / store light energy.

The most effective energy saturation is obtained when the lens is exposed to direct ultra violet rays (UV) from sunlight, black lamps, halogen lamps, discharge lamps and fluorescent lamps. Afterglow brightness is proportional to the intensity of UV contained in the excitation light.

The advantages and distinguishing features of the afterglow capability are

- ✓ A continuous afterglow period of ten times current commercially available non radioactive phosphorescent pigments;
- ✓ An initial afterglow brightness of up to ten times current radioactive and non radioactive commercially available phosphorescent pigments;
- ✓ Activation by a wide wavelength band (200-450nm) with best results obtained with an activation energy around 350nm;
- ✓ An increase in luminescence and afterglow with longer activation time;
- ✓ Excellent weather and light fastness with no power connections;
- ✓ Free of hazardous or radioactive substances.

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WAY OUT lenses are an unpowered photoluminescent way-guidance system providing emergency exit, floor pathway safety direction by glowing in the dark when all light is lost.

The non-toxic luminescent strip is charged by ambient light and emits an intense, highly visible glow in the dark that is immediately visible to the eye without any adaptation. This high visibility is operationally effective in smoke conditions or even underwater for a period of up to twelve hours.

NOTE –

WAY OUT Evacuation Systems Pty Ltd are accredited defence, international maritime, aeronautical, transportation and 'in building' specialist suppliers of self-illuminating emergency assistance products and signage.

