

Endurance luminaires



Stylish enough to look good in the most prestigious of projects, matched with leading edge technical design which will complement any building interior.

Advanced 'energy saving' technology

A cold cathode fluorescent lamp with a long life expectancy of over 50,000 hours. The cold cathode lamp also provides energy savings of 40% over a comparable T5 8w tube.

Minimal maintenance

The cold cathode lamp, advanced battery charging and quality components enables a long lifespan of at least 4 years without maintenance.

Assured performance

Intelligent Self-Test is standard. All fittings are designed to fully comply with BS EN 60598.2.22 (Kitemark KM13139).

Easy 'first-fix' installation

Luminaires have a first-fix design which allows full wiring of the universal base unit with a positive snap-in fixing of the luminaire body.

Intelligent Self-Test as standard

All Endurance luminaires have an in-built self-testing system, ensuring all testing and fault identification is handled automatically. This feature is offered as standard on all versions of the product. The fitting will do weekly operation checks and conduct its own full duration test after 1 year.

A "press to test" is also incorporated.

Long life components

The key functional elements to this unit are the lamp, battery and circuit. Endurance uses long life components including lamp and batteries that will enable the product to endure a period of at least 4 years without replacement parts. After this period, in the unlikely event that a fault occurs, then simply unplug and fit a new luminaire body.

In essence, 'Endurance' does not require any user intervention, maintenance or replacement of its parts, over a long period of time, giving confidence and peace of mind to the user, whilst minimising maintenance costs.

Edge-lit exit sign available in 3 colours

- Standard White
- Smart Silver
- Classic Black



The Endurance exit sign is versatile enough to be installed in the most awkward of spaces. With a range of mounting accessories especially designed to enhance the fitting's flexibility, designers can now choose from wall, ceiling, recessed and suspended fixings, with rods or wires, as well as a unique horizontal version for installations where space is restrictive.

Comprises: A first-fix plate, luminaire body complete with lamp, batteries, circuit and sign-plate cover. The first-fix plate has a 5-way terminal block to which all the electrical connections are made. The luminaire body 'snaps' into the first-fix plate and the sign-plate cover snaps onto the body and hides the lamp etc. The sign-plate is the main accessory and is sold separately to the base unit. Available with different directional arrows and as single sided or double sided versions.

This unit is self-contained with restmode facility.

SPECIFICATION

ELECTRICAL & OPERATIONAL	SELF-CONTAINED
Input voltage	230v 50Hz
Duration	3 hours
Battery	High temperature nickel cadmium
Charger	Microprocessor controlled dual rate
Charging monitor	Green LED
M operation	High frequency operation
Recharge period	24 hours
Lamp	CCFL
Lamp o/p (lumens)	70
Rated lumen output measured on a sign-plate over a 3hr duration (test at BSI)	After 3 hour duration 13 lumens
Consumption (amps)	0.04
Fault indicator	Amber LED. Self-Test as standard

CONSTRUCTION & INSTALLATION

Cable entry	Provision via 20mm diameter knockouts/holes for easy connection to first-fix plate
Construction	Polycarbonate high impact plastic
Environment	0 – 25°C ambient
Ingress class	IP20
Dimensions lwd (mm)	Base Unit 310 x 282 x 53
Weights (kg)	Main unit with first fix and diffuser: 0.78 Packaged carton: 0.94 Sign-plate: 0.5
Product standard/Approvals	Designed and manufactured to BS EN 60598.2.22 EM3-001, -002 & -003 Kitemarked
Uniformity	Endurance conforms to the minimum requirement of 2cd/m ² (on any point of the sign-plate) for uniformity



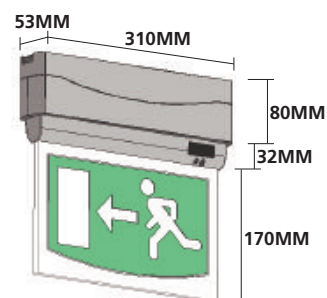
Base unit in white with legend



Base unit in black with legend



Base unit in silver with legend



Endurance edge-lit mounting accessories



With horizontal mounting in white



With recessed kit in white



With wall bracket in silver – centred



With wall bracket in silver – angled

Horizontal EMH

Attachment is available which allows the luminaire to be mounted horizontally with the sign-plate hanging vertically. This kit consists of a reflector to redirect light to the sign-plate, an alternative sign-plate cover and screws to secure the sign-plate. Ideal for use above doors where space is limited.

Recessed Kit EMF

Comprising a recessing cage, trim plate and fasteners. The recessing cage has side wings that are used to secure the cage to the ceiling. The luminaire is installed by simply pressing it into place and replacing the cover.

Wall Brackets EMV

The bracket moulding features a ratchet detail allowing the sign to be angled at virtually any angle to the wall, specifically parallel and perpendicular mountings.

Suspension Kits EMS

The suspension mounting is available in 2 basic forms, either as a wire suspension or by twin rod mounting. The adjusting device for the wire is pulled through a clutch mechanism until the desired length is reached, then the wire is cut to length. The ability to cut the wire to length makes this version especially suitable for angled mounting surfaces where different lengths of wire need to be achieved. The cut end does not enter the first-fix plate so cannot chafe electrical wiring or compromise safety.

Rod Suspension EMR

A number of rod suspension kits are available for specific mounting heights.



With wire suspension in white



With rod suspension in white

When ordering an Exit Sign system, the basic luminaire must be ordered with an appropriate sign-plate and the specific mounting kit for any fixing other than standard ceiling.

When ordering:

Choose one order code from each box

Order the base unit in the appropriate colour	(from Box 1)
Order the special mounting accessory if required	(from Box 2)
Order sign-plate with correct arrow indication	(from Box 3)

TO ORDER

BOX 1 – BASE UNIT DETAILS

DESCRIPTION	ORDER CODE
Basic safety sign luminaire (white)	EM3-001
Basic safety sign luminaire (black)	EM3-002
Basic safety sign luminaire (silver)	EM3-003

BOX 2 – MOUNTING ACCESSORIES

Wall bracket (white)	EMV-001
Wall bracket (black)	EMV-002
Wall bracket (silver)	EMV-003
Horizontal (white)	EMH-001
Horizontal (black)	EMH-002
Horizontal (silver)	EMH-003
Recessing kit (white)	EMF-001
Recessing kit (black)	EMF-002
Recessing kit (silver)	EMF-003
Adjustable wire suspension kit (white)	EMS-001
Adjustable wire suspension kit (black)	EMS-002
Adjustable wire suspension kit (silver)	EMS-003
0.30m rod suspension kit (white)	EMR300-001
0.30m rod suspension kit (black)	EMR300-002
0.30m rod suspension kit (silver)	EMR300-003
0.50m rod suspension kit (white)	EMR500-001
0.50m rod suspension kit (black)	EMR500-002
0.50m rod suspension kit (silver)	EMR500-003
1m rod suspension kit (white)	EMR1000-001
1m rod suspension kit (black)	EMR1000-002
1m rod suspension kit (silver)	EMR1000-003

BOX 3 – ENDURANCE LEGEND

Running man arrow left	ESS010
Running man arrow right	ESS011
Running man arrow down	ESS012
Running man arrow up	ESS013
Double sided; arrows left/right	EDS020
Double sided; arrows down	EDS021
Double sided; arrows up	EDS022

Example of a written specification for an Endurance project

Emergency Lighting safety signs should be from the Endurance range of low maintenance self-contained luminaires incorporating long life cold cathode lamps.

The equipment should be manufactured in Polycarbonate and utilise a separate 'first-fix' installation plate. The safety sign luminaires should be mounted using the appropriate 'Endurance' mounting kit.

Please specify colour option, white being standard.



Endurance colour choices, White, Smart Silver and Classic Black

EXAMPLE ORDER

BOX 1 BASE UNIT

- Basic safety sign luminaire (white) EM3-001

BOX 2 MOUNTING ACCESSORIES

- Wall bracket (white) EMV-001

BOX 3 ENDURANCE LEGEND

- Arrow left ESS010