



Endurance

"Fit and Forget"- Maintenance Free Lighting



Endurance

Endurance 150
Chalmor 01582 748700 www.chalmor.co.uk

Endurance is an energy efficient light fitting, for areas where reliability of lighting is essential or for use in difficult to maintain areas. With an average operational life of 60,000 hours, even running Endurance 24 hours a day, would provide almost 7 years of light without the need to change a single lamp!

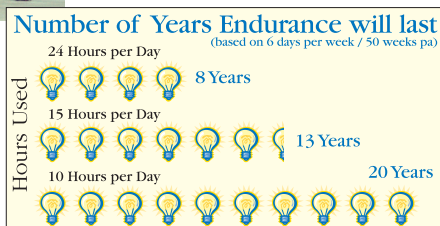
Endurance uses the latest induction lamp technology in tough IP65 fittings, suitable for specific internal or external uses. Rated at up to 150 watts with a bright white light Endurance produces good colour rendition and offers both energy and maintenance savings when compared to traditional lamps. Improved efficiency also means that Endurance lighting schemes offer the benefit of significantly reduced CO₂ emissions compared to using traditional lighting.

Typical applications for Endurance include sports halls, swimming pools, warehouses, service station forecourts, aircraft hangars and tunnel lighting where lighting maintenance is often time consuming and the access difficult.

Additional economy is achieved with Endurance due to the lamp being able to strike instantly, with full power being

achieved within 60 seconds. Re-striking is also immediate, even at full running temperature. In very cold temperature applications, for example cold storage, an amalgam heater may be required.

Endurance is particularly suited to being used with lighting controls that can reduce running times and extend the useful life of the lamp. With virtually no maintenance, improved reliability and efficiency Endurance has a lot to offer and can, in the majority of applications, show an appreciable life time financial saving over traditional light fittings.

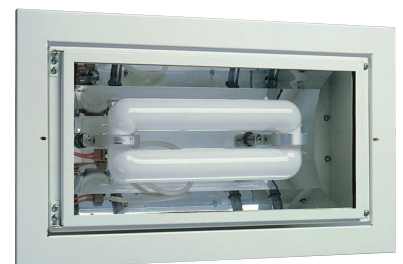


FEATURES

- Virtually maintenance free
- 60,000 hour operational life
- Energy efficient alternative to SON, Metal Halide and MBF lamps
- Bright white light with excellent colour rendition
- Controllable with instant strike and re-strike capability
- Versions specific for inside and outside use
- Lamp and control gear backed by 5 year guarantee



Endurance External



Flush Fitting Endurance





SAFETY AND PERFORMANCE

As you would expect from a company with over 25 years experience in the lighting and controls market, Endurance offers the following benefits:

- High reliability leads to an extremely long life of 60,000 hours with a failure rate of only 10%, for $t_c = t_c \text{ Max}$
- Flicker-free ignition and flicker-free light with no annoying hum
- No adverse effect from frequent on/off switching
- Low lamp ignition temperature, as low as -25°C
- Complies with European standards for safety and EMC
- Control gear is VDE tested

TECHNICAL SPECIFICATION

Supply voltage.....	230 to 240V
Line frequency	50 to 60Hz
DC voltage range	176 to 275v; lamps must be ignited at over 198v however
Approval marks	
Safety acc.....	to EN 60928
RI suppression	acc. to EN55015
Line harmonics	acc. to EN 61000-3-2
Immunity acc.....	to EN 61547
Lamp Type	Induction
Useful operational life.....	60,000 hours
Control gear	High Frequency Electronic
Current rating	0.7A @ 230 VAC
Power Factor	>0.98
Operating Frequency	250kHz
Operating Temperature....	-25°C to +50°C max (inclusive)

Endurance 150 Watt version

Luminaire Dimensions: (LxWxD) ..	570x265x131mm
Gear Box Dimensions: (LxWxD)....	270x83x118mm (See main image for location)

Weight.....	8.5 kg
Reflector	Miro 4 Symmetrical or Asymmetrical
IP Rating	IP65
Visor.....	4mm impact resistant clear polycarbonate
Endurance Enclosure construction	Minimum 0.7mm Mild Steel CR4
Endurance Enclosure finish.....	White Dry Powder Coated

External Endurance

Luminaire Dimensions: (LxWxD)	525x410x168mm
Weight.....	7.9 kg
Windage scx.....	0.22m ²
Reflector	Miro 9 Symmetrical
Diffuser.....	Tempered Glass
IP Rating	IP65
External Endurance construction	Die Cast Aluminium
Endurance Enclosure finish.....	Powder Coated

ORDER CODES

UNDERSTANDING ORDER CODES

Product	NCE	Surface mounted.....	/S
Lamp wattage	70	Asymmetrical	/ASYM
Fitting type.....	/OPEN	Symmetrical	/SYM
Flush mounted	/F	External Version.....	EXT

ORDER CODES ENDURANCE

NCE/70/OPEN
NCE/70/SYM
NCE/70/ASYM
NCE/100/OPEN
NCE/100/SYM
NCE/100/ASYM
NCE/135/OPEN
NCE/135/SYM
NCE/135/ASYM
NCE/150/OPEN
NCE/150/SYM
NCE/150/ASYM
NCE/200/OPEN

EXTERNAL ENDURANCE

NCE/70/EXT
NCE/100/EXT
NCE/135/EXT

ORDER CODES ENDURANCE ACCESSORIES

FRAME/600X600/M	Double Mounting Frame with Infill Panels
FRAME/600X300/M	Single Mounting Frame
FRAME/600X600/F	Double Finishing Frame
FRAME/600X300/F	Single Finishing Frame
NCE/WB	Wall Mounting Bracket (per pair)
NCE/WB/PLATE	Optional Plate for use with NCE/WB (each)

EXTERNAL ENDURANCE ACCESSORIES

NCE/EXT/PB/60	Galvanised Pole (76mm) Bracket for External Endurance
NCE/EXT/PB/76	Galvanised Pole (76mm) Bracket for External Endurance

LAMP OPTIONS

LAMP/NCE/70W/840/SQ	Endurance lamp, 70 watt, colour 840
LAMP NCE/100W/840/SQ	Endurance lamp, 100 watt, colour 840
LAMP/NCE/150W/840/SQ	Endurance lamp, 150 watt, colour 840

Endurance is available with a variety of options. For further information please call our office on 01582 748700.



Experts in Energy Saving Lighting and Heating