



**Improved
light levels...**

**...reduced
energy and
maintenance
costs**

You can't lose



Chalmor

Experts in Energy Saving
Lighting and Heating

ABOUT CHALMOR

For over 25 years Chalmor has been helping Food & Beverage organisations achieve energy savings by delivering lighting solutions that make good business sense, save money and reduce the size of the organisation's carbon footprint.

During this time we have carried out projects for all sizes of clients including some of the biggest names in the business: Heinz, Premier Foods and Silver Spoon.

Chalmor provides a complete service including design and supply of equipment, project management and installation as well as comprehensive performance guarantees.

Chalmor's flagship Endurance light fitting offers a useful life of more than 7 years even in a 24/7 operation before the lamps need to be replaced. Improved lighting is also part of the Chalmor service as our mission is to provide the best possible lighting conditions, minimise associated risk and deliver the lowest possible operational costs.

In addition Chalmor offers a unique **LifeSaver** Scheme where the financial savings effectively cover the cost of the investment!

Find out more about Chalmor and the products/services we offer at www.chalmor.co.uk

CHALMOR LIGHTING SOLUTIONS BRILLIANCE

A new light fitting complete with high performance T5 linear fluorescent lamps to produce a high quality light output for demanding application.

- 24,000 hours standard lamp life
- 48,000 hour guaranteed long life option
- Excellent colour rendition
- Low maintenance costs
- Several control options are available including occupancy, light level, dimming and time control
- Controllability available due to instant strike and restrike capabilities
- Flicker free lighting with no stroboscopic effect
- Sealed unit to reduce risk of contamination
- Shatterproof lamp option available
- Open fittings qualify for Enhanced Capital Allowances

ENDURANCE

A new concept in energy efficient illumination, the ENDURANCE luminaire from Chalmor is designed as a virtually maintenance free luminaire.

- 60,000 hour operational life
- Energy efficient alternative to SON, Metal Halide and MBF lamps
- Bright white light
- Controllability available due to instant strike and restrike capabilities
- Suitable for inside use
- Sealed unit to reduce risk of contamination

Would you like..... New lighting and controls? Improved light levels? Reduced energy and maintenance costs? With no capital outlay!



Robert Wiseman Dairies

Around 50% energy savings and a significant reduction in maintenance requirements are just two of the benefits to Robert Wiseman Dairies from installing Chalmor's Endurance fittings in its new Bridgewater processing facility. Specified by A E Robb and installed by Norstead, the 60,000 hour Endurance fittings extend re-lamping schedules to about 7 years, while achieving high lighting levels for half the installed electrical load, compared to a 250W SON alternative.



A G Barr 'The Irn-Bru Company'

Long life, maintenance-free Endurance light fittings from Chalmor are helping A G Barr 'The Irn-Bru Company' reduce lighting costs in its Mansfield soft drinks bottling facility by around 65%, while also providing a return on additional investment of less than two years.



Marston's PLC

The instant strike and restrike abilities of Chalmors Brilliance fitting has allowed Marstons to control their lighting in line with occupancy at their warehouse in Mansfield. They have also been able to reduce the load per fitting by over 50%, in comparison to their previous 400W Metal Halide, whilst also improving light levels.



Examples of Running Costs

| | Current Running Costs | Projected Running Costs with BRILLIANCE | Projected Running Costs with ENDURANCE |
|----------------------|-----------------------|---|--|
| No. Of Fittings | 100 | 100 | 100 |
| Running Hours | 8,760 | *3,494 | **6,155 |
| Annual kWh | 419,328 | 75,479 | 91,728 |
| Maint Cost pa | £4,259 | £328 | †£0.00 |
| Total Cost pa | £33,612 | £5,661 | £6,421 |

* Savings from occupancy and daylight based upon 7p electricity unit rate
** Running hours for the Endurance is based on using Autolux controls
† No maintenance expected for 5 years

Examples of Potential Savings

| | With BRILLIANCE | With ENDURANCE |
|--------------------------------|-----------------|----------------|
| Total Savings | £27,191 | £28,328 |
| Budget Project Investment Cost | £52,000 | £52,000 |
| Payback installed | 1.9 years | 1.8 years |
| Payback supply only | 1.3 years | 1.4 years |



In the case of SMEs (small and medium enterprises) many such projects will qualify for interest-free loans from the Carbon Trust and Chalmor has developed a wealth of experience in completing the complex paperwork involved.



Chalmor's LifeSaver plan is designed to help organisations invest in energy efficient solutions without major capital investment. Instead, the equipment is financed from the savings achieved! LifeSaver aims to reduce the cost of ownership and to make energy saving projects even more affordable - with no capital investment and extended warranty for complete peace of mind there is now every reason to start saving!

TECHNICAL SPECIFICATION



BRILLIANCE

***Dimensions (LxWxD):** 1263x480x120mm
Enclosure construction:..... Steel
Enclosure finish:..... White powder coated
Reflector: 95% reflective super sheet aluminium
IP Rating:..... IP54
Useful operational life: 24,000 hours – Standard
 48,000 hours – Ultra
Control gear: High Frequency with dimming as an option.
 Also multi wattage versions available
Supply voltage: 230~240 VAC
Emergency: 3 hour emergency pack available as an option
Lamp colour: Col 840 as standard – other colours available on request
Lamp type: 54 or 80 Watt (4000k) tri-phosphor T5 lamps as standard. Other T5 lamps available



**Dimensions show are for the 54 Watt version*

AUTOLUX



Dimensions (LxWxD):..... 215x128x62 mm
Relay outputs: 10A (2A Inductive)
Battery back up: 5000 hours of clock back up and up to 5 years of programme back up
Battery service life: >5 years
Control operating temperature range: 0°C to 35°C
Control operating humidity range: 0 to 90% RH
Lighting sensor range:..... 10 Lux to 23,000 Lux
Control IP rating: IP30
Control safety construction:.. Class II
Mains supply: 230 VAC 50 Hz

ENDURANCE

Dimensions (LxWxD): 568x284x150mm
Weight:..... 8.5 kgs
Enclosure construction:..... Mild Steel CR4
Enclosure finish:..... White Dry Powder Coated
Reflector types:..... Symmetrical or Asymmetrical
Designed to rating: IP65
Lamp type:..... Induction
Useful operational life:..... 60,000 hours
Control gear:..... High Frequency Electronic
Supply voltage: 230-240V
Current rating:..... 0.7A @ 230 VAC
Power factor:..... >0.98
Operating frequency:..... 250kHz
Operating temperature: -25°C to + 50°C max. inclusive
Visor:..... 4mm impact resistant clear polycarbonate



Specifications may change without prior notice

Lamp life time comparison

| SON, Metal Halide and MBF | | (Based on 24 hours usage 7 days a week 52 weeks a year) |
|---------------------------|---------------|---|
| 1.5 years | 2 light bulbs | |
| 3 years | 3 light bulbs | |
| 7 years | 7 light bulbs | |
| Year 1 | Year 2 | Year 3 |
| Year 4 | Year 5 | Year 6 |
| Year 7 | | |

Please contact me about lighting savings - Fax back to 01582 748748

Name:
 Company:
 Address:
 Tel: Fax:
 Email:@.....
 Details:

Please also send details to my colleague:
 Name:
 Job Title:
 Company:
 Address:
 Tel: Fax:
 Email:@.....

or email - info@chalmor.co.uk



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