

INTELLIGENT ENERGY-SAVING SOLUTIONS



Lower energy costs...

Reduced carbon emissions...

Improved control...

Significant savings on maintenance and downtime...

You can't lose



Chalmor

Experts in Energy Saving
Lighting and Heating



ABOUT CHALMOR

For more than 25 years Chalmer has been driving down energy costs by delivering optimised energy reduction solutions with a fast return on investment. Chalmer can provide a complete service ranging from early stage design, supply of equipment, project management and complete project installation.

In recent years Chalmer has successfully reduced energy consumption, costs and carbon emissions in a wide range of manufacturing applications throughout the UK. Reference sites and case studies are available, including Lotus, Corus Steel, SC Johnson, Tarmac, Hanson Brick, BVT Surface Fleet, Knaut, Cummins, Hollingsworth and Vose, Morris Cranes and many more.

Also, Chalmer's unique LifeSaver Scheme enables you to implement an energy saving project for no initial outlay – The scheme can be tailor made to ensure the investment is funded through the reduced costs and financial savings.

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

Chalmer's Energy-Saving Solutions BRILLIANCE/INTELLIGENCE

A versatile family of light fittings with high efficiency T5 linear fluorescent light sources in 3, 4 and 6 lamp configurations, available in long life (24,000 hours) and ultra long life (48,000 hours) versions. Intelligence options include built-in occupancy and daylight controls.

- Low maintenance costs
- Excellent colour rendition
- Highly controllable with many control options – including integrated controls (Intelligence)
- Flicker free lighting with no stroboscopic effect
- Sealed units to reduce risk of contamination
- Shatterproof lamp option available
- Open fittings qualify for Enhanced Capital Allowances

ENDURANCE

Low energy light fittings with exceptionally long life (60,000 hours), bright white light with excellent colour rendering and comprehensive controllability. Ideal for low and high bay lighting applications and available for indoor and outdoor use.

Up to 20 year lamp life (10 hours per day) reduces maintenance costs and downtime

Energy efficient alternative to SON, Metal Halide and MBF lamps

Highly controllable for maximum energy efficiency

Models for interior and exterior use

Sealed unit to reduce risk of contamination

RESILIENCE

A contemporary-styled slimline fitting with a comprehensive choice of energy-saving T5 fluorescent lamps and robust construction with ingress protection to IP65. Manufactured from high impact polycarbonate with a two-part moulded, gasketless design for fast maintenance access, making it ideal for a wide range of demanding applications.

LIGHTING CONTROLS

The Autolux Universal Controller is a highly flexible, easy to use, competitively-priced 7-channel controller providing the functionality of a high-end lighting management system for a fraction of the cost.

Bluewave is a highly flexible, low cost 2-channel lighting controller, providing cost-effective control based on occupancy, light levels and timer controls in one or two zones.

Do you need to..... Reduce energy consumption? Minimise carbon emissions? Lower energy and maintenance costs? With no capital outlay?

Ritrama

Chalmer's LifeSaver scheme enabled self-adhesive materials manufacturer Ritrama to upgrade lighting and controls at its facilities in Eccles with no capital outlay. Instead, the installation is funded through quarterly payments, which are less than the money saved each quarter from reduced energy consumption.

650 SON fittings were replaced with 420 Chalmer Brilliance high output, long life fittings, enabling Ritrama to reduce its installed electrical load by 136kW. Chalmer's Brilliance fittings are linked to Chalmer AutoLux lighting controllers, providing presence detection and daylight modulation. The enhanced control is expected to reduce the lighting's running hours by around 40%, resulting in an annual energy saving of 1,444,956kWh.



Lotus

As part of its wide-ranging sustainability strategy, Lotus Cars has installed energy efficient, long life Brilliance light fittings from Chalmer at its facility in Hethel, Norfolk. As well as improving the quality of lighting, the Brilliance fittings are saving the company over £3500 per annum on running costs to give a payback on the investment of less than 18 months.

BVT Surface Fleet

Energy and maintenance savings from installing Brilliance fittings in an existing steel hall and a new extension at BVT Surface Fleet's shipbuilding facilities delivered a payback of just over a year. In the steel hall, 6 x 80W 48,000 hour life, Brilliance fittings, mounted at 40m, replaced 1000W SON lighting to produce over 50% savings on electricity and maintenance costs.



Chalmer's LifeSaver plan is designed to help organisations implement 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 every reason to start saving now!

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

Examples of Potential Savings

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

* 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

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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 shown are for the 54 Watt version*

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

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

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	Years 2	Years 3
Years 4	Years 5	Years 6
Years 7		

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

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

or email - info@chalmor.co.uk



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