



**Improved
forecourt
light levels...**

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

You can't lose



Chalmor

Experts in Energy Saving
Lighting and Heating

ABOUT CHALMOR

For over 10 years, Chalmor has been the leading expert in forecourt energy saving. During this time we have carried out thousands of installations for both national and independent petrol retailers.

Chalmor provides a single source of contact as we carry out the site survey and saving assessment, manufacture the light and fittings and complete the installation.

Research supported by the Petrol Retailers Association shows that typical petrol forecourts using 10 standard 400W canopy lights can save approx £2,000 a year on energy costs alone by upgrading to Chalmor's 150W long-life Endurance luminaires linked to simple lighting controls. Further savings are achieved through reduced maintenance requirements, as Endurance luminaires provide a life of 60,000 hours before the lamps need to be replaced, without any loss of light output during that time. Light quality is also improved, with whiter light that is more effective in attracting passing trade.

THE CHALMOR FORECOURT LIGHTING SOLUTION

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
- Controllable with instant switch on
- Suitable for inside and outside use
- Sealed weatherproof unit

AUTOLUX

Chalmor also manufacture and install Autolux, a complete light control system. Autolux will allow you to independently control the signage, under canopy lighting and flood lights.

- Control of up to 6 lighting zones
- Up to 4 lux sensors
- Ambient light level and occupancy control
- Controls multiple functions within a zone
- Highly flexible and configurable
- Clear display with easy to understand information
- PIN protected access for advanced settings
- 7 day programmer with 3 ON/OFF per day
- Overtime and holiday overrides
- Monitors lamp hours run and hours saved

Would you like New canopy lighting? Improved forecourt light levels? Reduced energy and maintenance costs? and.... with no capital outlay!



KEY BENEFITS

- Total savings of 48,322.00 kWh per annum, represents a forecourt load saving of 67%
- Savings of 20.78 tonnes of CO₂ emissions
- Lifetime cost reductions of 53% (in energy consumption, lamp replacement and maintenance)
- Improved quality of lighting, providing
 - greater security and safety for your staff and customers
 - enhanced trade



▲ Golden Fleece Carlisle

Golden Fleece: Forecourt lighting at the Golden Fleece 24 hour station in Carlisle was using nine 250W and 16 x 450W lamps, costing £4,499 a year to run 24 hours a day, seven days a week. After replacing these fittings with 150W Endurance fittings, canopy lighting costs have been reduced by £3,355 a year.

Windsor Service Station

On a typical forecourt, specially designed Endurance Canopy fittings together with Autolux lighting controls will provide over 50% energy savings compared to conventional fittings, while extending re-lamping cycles to 10 years.



Example of running costs and potential savings

Current Running Cost*	No. of fittings	Circuit Watts	Running hours	Annual kWh	Maint Cost pa	Total Cost pa
Signage	48	75	6,000	21,600	£100.00	£1,936.00
Flood lights	2	500	6,000	6,000	£50.00	£347.50
Canopy lights	10	480	6,000	28,800	£500.00	£2,540.00
Shop	48	75	6,000	21,600	£100.00	£1,936.00
Total	108	1,130	24,000	78,000	£750.00	£6,759.50

Projected Running Costs*	No. of fittings	Circuit Watts	Running hours	Annual kWh	Maint Cost pa	Total Cost pa
Signage	48	35	4,200	7,056	£33.00	£632.76
Flood lights	2	500	3,000	3,000	£50.00	£198.75
Endurance	10	150	3,600	5,400	£0.00	£382.50
Shop	48	35	5,400	9,072	£33.00	£804.12
Total	108	720	16,200	24,528	£116.00	£2,018.13

* Average Electricity unit cost 8.5p

Savings Summary

Total Savings	£4,741.37
Budget project investment cost	£9,500
Payback	2 Years
CO ₂ savings	20.78 tonnes

Savings by Area

Signage savings	30%
Floods savings	50%
Canopy	40%
Shop	10%



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.



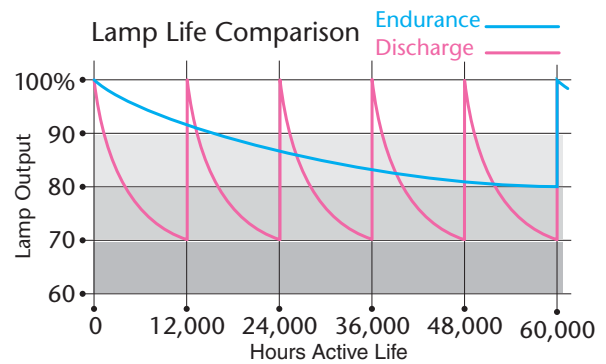
Chalmor's Pay As You Save (PAYS) plan is designed to help organisations invest in energy efficient solutions without major capital investment. Instead, the equipment is financed from the savings achieved! PAYS aims to reduce the cost of ownership and to make energy saving projects even more affordable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

TECHNICAL SPECIFICATION



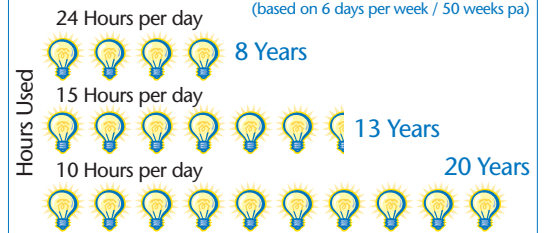
ENDURANCE

Luminaire dimensions.....568(l) x 284(w) x 150(d) mm
Weight8.5 kgs
Enclosure construction ...Mild Steel CR4
Enclosure finishWhite Dry Powder Coated
Reflector typesSymmetrical or Asymmetrical
Designed to ratingIP65
Lamp type.....Induction
Useful operational life ...60,000 hours
Control gearHigh Frequency Electronic
Supply voltage.....230-240V
Current rating0.7A @ 230 VAC
Power factor>0.98
Operating frequency250kHz
Operating temperature...-25°C to + 50°C max. inclusive
Visor4mm impact resistant clear polycarbonate



Number of Years Endurance Will Last

(based on 6 days per week / 50 weeks pa)



AUTOLUX



Dimensions.....215(l) x 128(w) x 62(d) 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 range0 to 90% RH
Lighting sensor range.....10 Lux to 23,000 Lux
Control IP ratingIP30
Control safety construction... Class II
Mains supply230 VAC 50 Hz

Specifications may change without prior notice

OTHER CHALMOR PRODUCTS FOR THE FORECOURT

EasiFit T5

Converts T8 to T5 energy efficient lamps with extended life and 50% savings on conventional control gear.



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

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

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