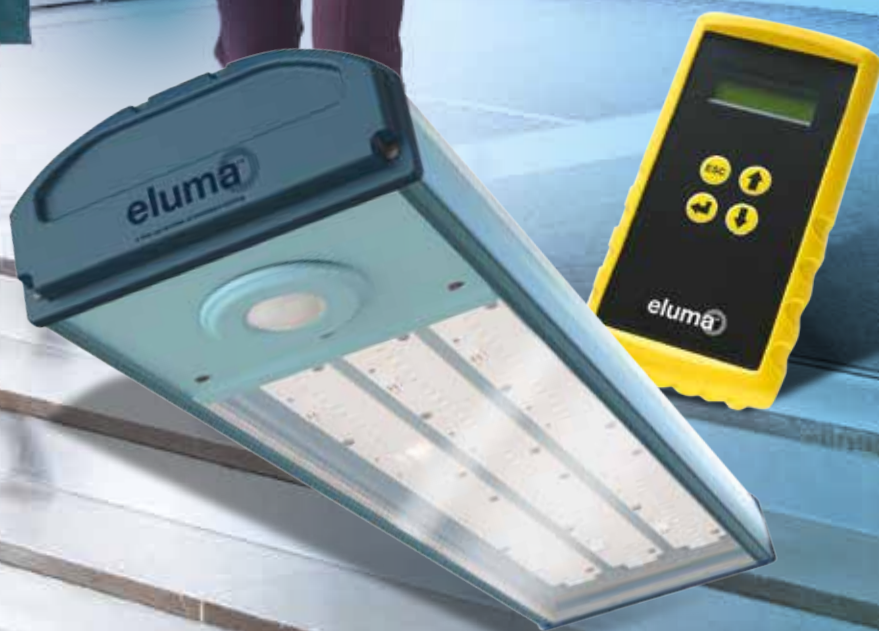


elumaTM

a new generation of intelligent lighting



The problem

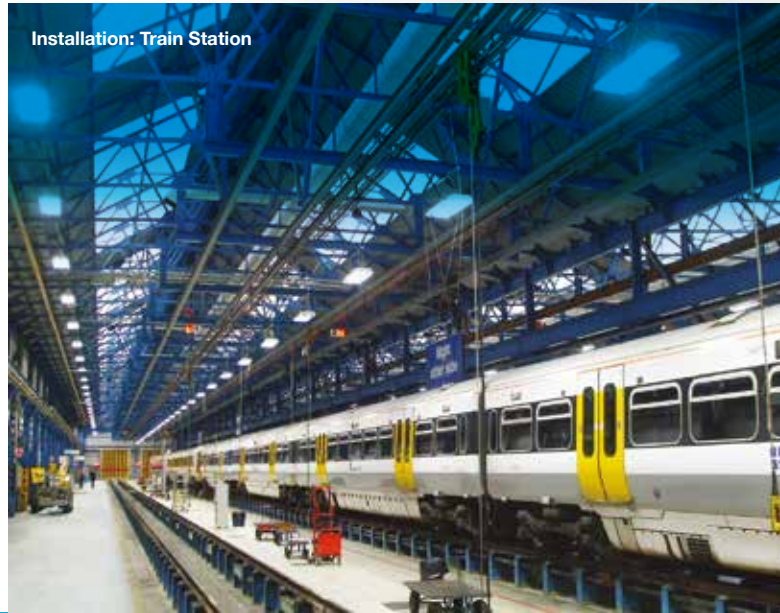
Right now, lighting may account for over 50% of an organisations energy bill. Actually, it could be a lot more. For example, if it's a multi-storey car park, it can be up to 99%.

Much of the energy consumed by various types of traditional lighting is wasted and converted to heat. Up to 95% in some extreme cases!

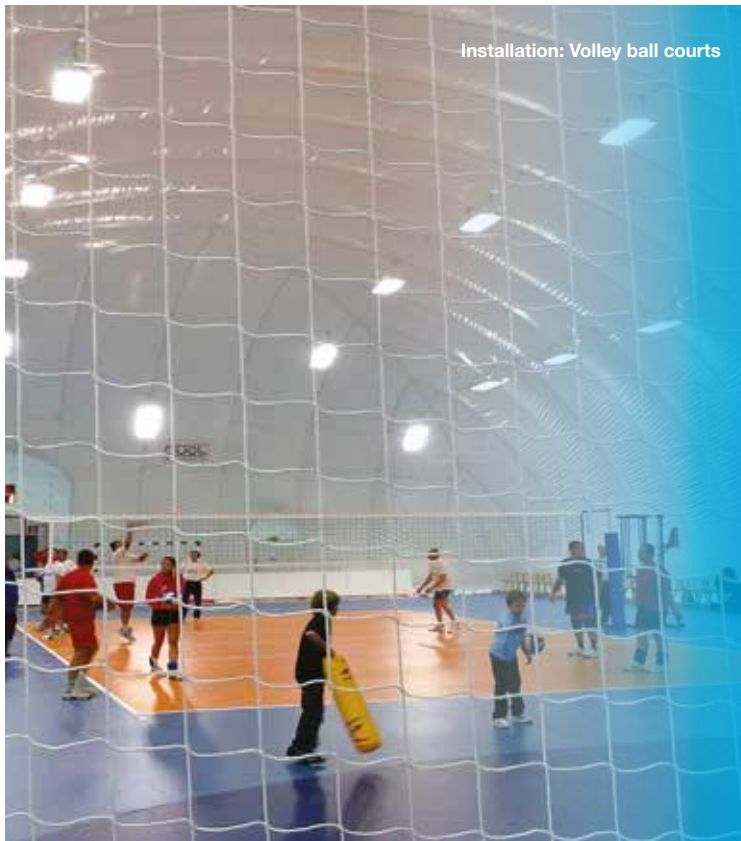
Turning lights off isn't hard, yet unoccupied areas of buildings are routinely flooded with artificial light because of poor user behavior – just drive through any city at night and the problem is clearly visible.

Furthermore, natural light may be perfectly sufficient for working conditions at different times of the day but occupied areas are frequently over-illuminated (higher light intensity than appropriate) because users typically fail or don't have the technology to compensate by turning lights down or turning them off.

Installation: Train Station



Installation: Volley ball courts



The solution

Installing Eluma will transform your lighting into an efficient, intelligent system that can reduce the energy cost by up to 80%. In the first instance this is achieved by replacing old luminaires with the latest LED technology.

Further savings can be realized by adding intelligence to your lighting. This is achieved through the strategic installation of state-of-the-art sensor technology. Eluma occupancy sensors ensure that lights are turned off automatically when they are not needed.

In addition the Daylight Harvesting sensors incorporated in Eluma can switch off the lighting when they detect sufficient natural light. They will also respond dynamically to changes in that light by intelligently adjusting light intensity to maintain perfect lighting levels. The result is guaranteed savings without having to think about it.

Eluma is perfectly designed for High-Bay installations like those found in factories, retail parks, malls, arenas, car showrooms, exhibition halls, hypermarkets etc. There are thousands of potential applications. Also warehousing and distribution level of 'lumens' required for level of lux.

Installation: Food plant



"Over half of what you spend on light is actually burned off as heat"

"In the past, energy efficiency was seen as a discrete improvement in devices, but information technology is taking it to the next level, where we are thinking dynamically, holistically, and system-wide."

Skip Laitner, Economist



Installation: Swimming Pool



Installation: Concorde Hall

elumaTM
a new generation of intelligent lighting

How it works

Lighting is only as intelligent as its users

The Eluma lighting solutions consists of unique copyright design lighting hardware coupled with intelligent self-learning software that ensures you only have light where and when you need it and to the exact level of 'lumens' required for optimum efficiency. You can set up and control them via the Eluma bespoke wireless control interface.

Eluma LED's are the best available on the global market with an operating life in excess of 50,000 hours (vs. 20,000 for a standard fluorescent) leading to significant additional savings in replacement and maintenance costs. LED's also run cooler, so air conditioning systems have far less work to do. A saving of more than 5% in cooling costs can readily be achieved by switching to LED's.

While in our opinion LED's produce the best light quality at the lowest possible running cost, Eluma can also be ordered with T5 compact fluorescent lamps where the specification dictates it.

Additional benefits

Energy Savings – Save up to 80% on something that could be responsible for 50% of your energy bill, or more. Typical paybacks of 1-2 years.

Better Environment – Eluma lighting delivers better light quality, a better working environment and is a very visible commitment to a greener economy.

Reduced Maintenance – 50,000 + hour lifespan equates to a significant reduction in replacement and maintenance costs.

Reduced AC Costs – Switching to Eluma will reduce the demand on air conditioning, saving another 5% in the process.

Highly programmable – Performance is further enhanced through each luminaire having its own highly configurable intelligent wireless sensor that communicates via a grid system to an easily programmable master control supplied with each installation.



We provide Ultra Smart Clean technologies designed to reduce Energy spend and Carbon Footprint.

On our journey over the last two decades we are delighted to have provided intelligent control solutions for many forward thinking organisations around the globe.



Head Office

British Energy Saving Technology
Southview House
St Austell Enterprise Park
Cornwall
PL25 4EJ
United Kingdom

Sales & Marketing Office

British Energy Saving Technology
Studio F7
Battersea Studios
80 Silverthorne Road
London
SW8 3HE
United Kingdom

Main +44 (0) 1726 871 040
Sales +44 (0) 8455 192 757
Email info@BestEnergySaving.com
Web BestEnergySaving.com