

THORN

LIGHTING PEOPLE

Case Study

Adnams Brewery, UK



Thorn refurbishes 10-year-old eco friendly distribution centre with low energy LED lighting



Background

Established in 1872, Adnams is best-known as a brewer of beer with a strong sustainability ethos. Adnams also owns and runs three coastal hotels, makes its own hand-crafted spirits, imports wines for its stores and runs an online shop.

Adnams is a returning Thorn customer, with Thorn having successfully refurbished some of its offices with LED lighting as well as undertaking several maintenance projects to replace fittings when failures occur. Based on the quality of Thorn's products and the integrity and expertise of its service, Adnams approached Thorn to renew the lighting at its Reydon-based distribution centre in Suffolk.

Lighting objectives

The 4,400m² distribution centre stores beers, wines and spirits from both Adnams' own production and its suppliers. Installed when the building was built in 2006, the lighting at the centre was a mix of inefficient fluorescent, metal halide and compact fluorescent lamps. The objectives for the new lighting were to therefore reduce the number of fittings and associated energy consumption by switching to LED.

Achieving these objectives was especially important because the centre has an ecofriendly design. It houses a 5,000m² green/sedum roof and is made from locally grown hemp and lime bricks with sustainable glulam wooden beams for support. This ensures the building is very insulated and no artificial cooling or heating is needed to maintain a cool 13-16°C inside. Installing LED lamps would reduce the temperature given off from the lights and therefore better maintain the temperature inside.

Lighting solution

The distribution centre's key industrial areas, including the main warehouse, cask bay and goods in area are illuminated with Thorn's HiPak Pro LED high bay luminaire. With high efficiency (135 Llm/W), HiPak Pro LED makes particularly significant energy savings in comparison to the previous lamps.

Thorn's IP65 rated dust and moisture resistant Aquaforce II LED has been fitted in several other industrial areas including the loading bay, caged and parcel areas.

Other refurbishment areas include the toilets with Cetus LED. As a recessed LED downlight sealed to IP44, Cetus LED is designed for one for one replacements of traditional compact fluorescent downlights.

The next phase will see the refurbishment of the offices which will include the introduction of lighting controls to maximise energy savings.



Before



After



Results and benefits

The new lighting has met Adnams' lighting objectives by reducing the number of fittings and energy consumption, as well as providing a better quality of light.

Throughout the project Adnams received Thorn's diligent customer service which it values so highly, and this will of course continue into the future.

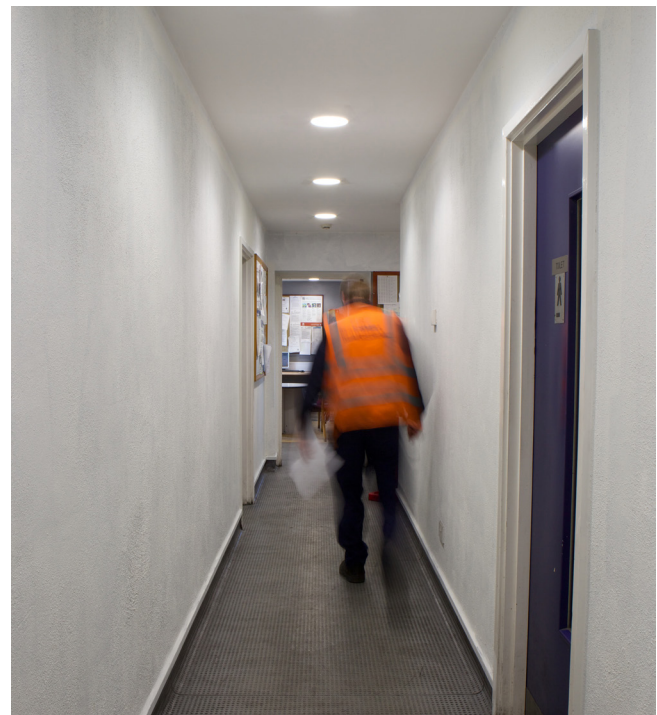
Customer feedback

Benedict Orchard, Environmental Sustainability Manager says:

"We chose Thorn over other suppliers because of their quality. We do not seek to buy the cheapest products because we want to ensure our suppliers provide a top quality product (as we do in our business), with great customer service. We therefore look for suppliers who follow similar values to ours around pride and passion for the product and company, integrity, individuality and responsibility.

"Having fully researched our site beforehand to understand which solutions would be best for us, Thorn successfully met our objectives, including to reduce the number of light fittings and energy consumption within the building. Minimal disruption occurred and our staff are very happy with the products.

"So far we have data suggesting reduced energy consumption is on par with calculations prior to project completion. The light levels are all significantly better and the colour is very clean and great for industrial operations. I am also impressed with how clean and smart the lighting and light levels look. The new lighting makes the whole site not only a better environment to work in but also visually more pleasing, which is important when stocking high quality products."



Products used



AquaForce II LED HiPak Pro LED Cetus LED

Key facts

- Complete distribution centre lighting refurbishment project phased over several months
- All objectives achieved, including reducing the number of fittings and energy consumption
- The new lighting has also improved the quality of light and building aesthetics



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