



 CONSTANT LIGHTING CASE EXAMPLE

OUTLINE

Customer	Confidential	Previous lights	T12S, T8S Mixed Fluorescents
Application	Office & Warehousing	Constant lights	Exude Surface, Bespoke Light, Sky High Bays & Emergencies

PROJECT DATA

Energy consumption kWh	59%	CO ₂ output	9 tonnes
Annual lighting costs	72%	Installation payback	2.1 years
Previous Lux level	150-200 Lux	Lux level after installation	550-600 Lux

OFFICE & WAREHOUSE CASE EXAMPLE

BACKGROUND

Our customer, based in North West England, had a range of fluorescent lights, using five types of light fittings throughout their offices and warehouse units which varied in issues, due to the multiple types of lamps and tubes needing maintenance, to poor uniformity of lighting levels and quality of lighting. In some cases the fluorescent light fittings had three colours of light being emitted (right).

They approached us at Constant Lighting to address their mix-match of lighting, and bring uniformity and consistency to their workplace. With the benefits of LED lighting to produce consistent colour, light levels and energy usage it was the logical choice for them.

Photo above: After. Photo below: Before





CONSTANT
LIGHTING

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OUR LIGHTING SOLUTION

The team at Constant Lighting assessed the current situation during a site visit, taking a range of details from light readings to floor plan information and discussed options with the client along with their expectations. They wanted to create a uniform lighting output as well as provide emergency lighting in the event of a power outage.

After careful planning an LED solution was outlined that utilised the best product options for the environment. Sky High Bays were installed in the warehouse main area, with a number fitted as emergency lights. Our Exudes were installed in the office and for their mezzanine floor. At the time our Exude Wall wasn't a core lighting product like today, in fact it was at the time designed specifically for this client. Exude Wall was designed to fit around the perimeter of the mezzanine floor at head height, and onto the beams across the roof space.

Photo above and below: After

- The combined lumen output for the existing light fittings (all fluorescents) was 381,420 lm.
- The lumen output of our LED lights installed was higher at 403,082lms and utilised 59% less energy, utilising less fittings.
- The office space saw the greatest light to wattage cost benefit; from 184watts used per fluorescent light, down to 54 watts used per LED solution.

With ultra low maintenance, a life span of over 50,000 hours (verses 10,000 hours for a standard fluorescent batten) our client had a projected 72% decrease in operational lighting costs and time.

