KELLWOOD LIGHTING

PROJECT CASE STUDY
Loganair

The maintenance hangar operated by **Loganair** at Glasgow Airport, had outdated and inadequate lighting. **Kellwood Lighting** was briefed to supply a technically demanding sixfold increase in light levels, while delivering a reliable and efficient solution.

A further challenge was provided by a need to absolutely minimise disruption due to a tightly packed, time sensitive maintenance schedule, making a turnkey solution provided by a single company essential.

Loganair
Scotland's Airline

EST. 1985

ENGINEERING
ELECTRICAL
LIGHTING

KELLWOOD LIGHTING

Kellwood's Solution

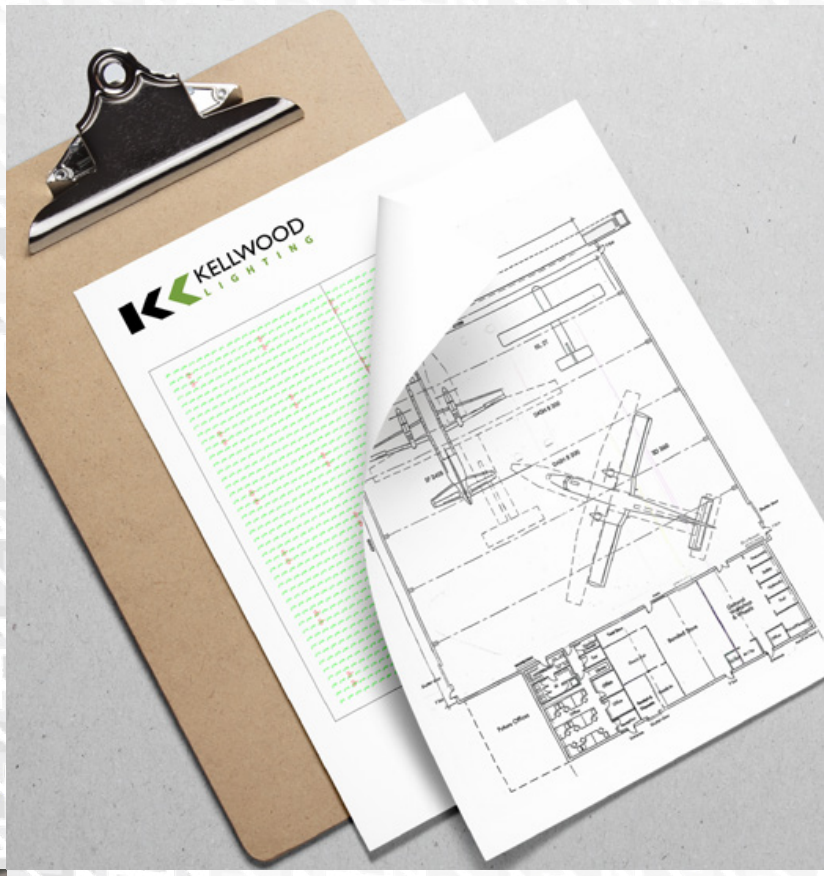
Kellwood's Lighting and Electrical divisions worked closely together to put forward the chosen solution. Multiple designs were modelled, analysed and iterated to ensure an optimised design from both lighting and installation perspectives.

Lighting Design

Due to the huge increase in lux levels, a major concern was how to find the most cost effective method of meeting the light level targets without increasing glare. The standard method of achieving this would be to increase the number of lights, however installing new mounting points would have necessitated exceeding the tight installation window and exceeded the desired budget.

Kellwood's solution was to mount our high efficiency, low glare **Haldane Series** in pairs, together with an advanced multi-step dimming, daylight harvesting occupancy controlled sensor, mounted on a customised bracket system. This allowed the necessary increase in units without expensive alterations to the wiring infrastructure.

The daylight harvesting and occupancy control allows the new solution to meet the lighting targets while consuming less power than the previous solution



Installation

Detailed planning and close communication were essential to identify and mitigate potential problems and streamline the installation plan according to allocated timeslots in each maintenance zone.

The lights and sensors were assembled onto the bespoke bracketry in house and delivered on custom made pallets to ensure the whole process was both simple and rapid. This all made for an extremely efficient and cost effective installation on site, ensuring the project was delivered to the time-scales requested by our client.

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CATHERINEFIELD INDUSTRIAL ESTATE / DUMFRIES / DG1 3PQ / SCOTLAND / UNITED KINGDOM

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KELLWOOD ENGINEERING LTD.

COMPANY REG. NO. SC92731 / COMPANY VAT REG. NO. 402 9667 49

KELLWOOD LIGHTING

Before

Average Light Level:

193lux

Operation:

24/7

Maintenance:

Regular re-lamping required

After

Average Light Level:

1100lux

(in working zones maintained through daylight harvesting and multi-step dimming)

Maintenance:

Minimised

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KELLWOOD LIGHTING

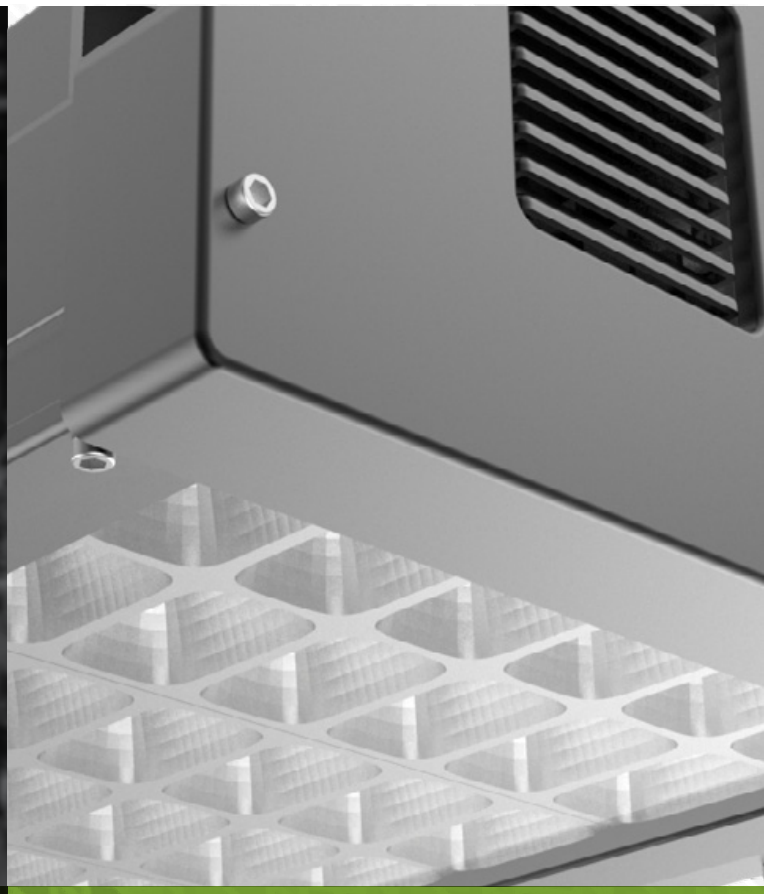
CARBON TRUST ACCREDITED SUPPLIER | Scottish Engineering | UVDB Registered

Design Features

- Luminaires used – 310W Haldane Series
- Maintained Lux Levels – 1100lux
- Glare - <19 UGR
- Increase in working light levels – 600%

Intelligent Controls

- Occupancy sensing
- Daylight harvesting
- Multi-step dimming
- Quick Analytic data retrieval



"I'd like to offer my sincere appreciation and admiration for a project that was well planned and promptly accomplished."

Eamon McHugh
Head of Base Maintenance

EST. 1985

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