

Amazon - Manchester

- / Altrincham, Greater Manchester
- / Vast office & warehouse space
- / Variety of products
- / Wireless lighting controls



The Brief

The world's largest retailer, Amazon, needed to install a lighting system at its Manchester-based warehouse and offices. With 80,000 sq m of total floor space, we were tasked with designing the lighting installation and supplying luminaires to improve the energy efficiency of the global internet retailer's operation on a project of epic scale.

The Solution

We recognised that the mixed-use environment of the office and warehouse would require a variety of lighting and control solutions. After carefully assessing the purpose each space would have for Amazon employees, our expert lighting engineers and designers chose from the company's vast range of sustainable LED fixtures.

For the warehouse, split into four mezzanine levels, we were tasked with lighting occupied areas to 300 lux. For mezzanine levels, the MULTILENS LED was built into LINEARLUX® pre-wired trunking and, for racking and double-height mezzanine areas, the AISLELUX® and [HI-MAX®](#) luminaires were selected respectively.

Each of the 5,000 luminaires were grouped according to the client's specification and controlled by a wireless lighting controls system, allowing Amazon to use Android tablet technology to adjust light levels and monitor energy consumption. In aisles where Amazon's KIVA robotics system operate, areas were lit to 50 lux to further reduce unnecessary energy consumption.

Though smaller in size, many different luminaires were selected for use in the office space. For office and meeting areas, the MICROLUX® downlighter was selected while our [V-LED® 180](#) downlighter was installed in communal areas such as the staff internet café. For locker rooms, plants, risers and stores, CORRIST (Now replaced by the [i40](#)) ranges were chosen, along with our [V-LED® 100](#) downlighters, which were built into bathroom ceilings.

Our [CORRILUX® 450C](#) was used for stairways and [MEDILUX®](#) for kitchen areas, with our emergency luminaires, [SINZ E®](#) and [PRW](#), installed externally and internally throughout. Each of the 800 luminaires contained a built-in wireless sensor and transceiver, linked up to the wireless controls system.

The Result

Thanks to the expertise of our lighting engineers and designers, we had the knowledge and experience to deal with the huge scale of the project and delivered purpose-lit, contemporary offices and warehousing spaces. The highly efficient lighting scheme minimises energy, as well as automatically testing the emergency lighting system and monitoring energy consumption. Amazon saw the benefits our energy-saving luminaires and intelligent, wireless lighting controls offered, and our lighting systems were then installed in several other Amazon facilities.



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