

Lighting for **Education**

Tamlite Lighting

Tamlite Lighting is no ordinary lighting manufacturer. Founded in 1967, we live and breathe our philosophy of Lighting for a Living. For us, it is much more than a marketing tagline. It crystallises how we think about light and the impact it has on every aspect of our lives.

How we live, work, play, learn and exist are all basic human needs that are influenced by light. Creating environments that are perfectly lit - comfortable, practical, efficient, safe and inspiring - is what we do, and it is what we have done well for over 50 years.

As we have expanded, Tamlite Lighting remains committed to its British roots, with extensive R&D, testing and manufacturing activities managed out of factories in Redditch and Telford. This gives customers the assurance that any Tamlite product has been made with quality in mind.

Today, Tamlite offers over 500 product ranges and in excess of 15,000 products, cementing its place as one of the industry leaders in cutting-edge lighting solutions.

The purpose of this brochure and topics below is to demonstrate how Tamlite can provide the ideal lighting solutions for a range of education applications.

- The role of lighting in education facilities
- Connected lighting solutions
- Lighting requirements across educational establishments
- Key products
- Education case studies



Tamlite Sectors

Tamlite designs, manufacture and supply outstanding lighting solutions to a wide range of sectors. Having achieved the LIA Quality Assurance award, and as a BAFE registered company, Tamlite provides quality lighting products and schemes for a variety of applications. Tamlite is a specialist in the education sector, working with Heads, Principals, Chancellors, Estate Directors and Facility Managers, helping to create 'future-proofed' educational establishments. Tamlite understands that educational facilities need to be inclusive and safe, providing students and staff with the right environment to work and learn.



Education

We understand that educational environments are all focused towards providing the best facilities possible for students and pupils. An integral part of educational facilities is achieving the ideal environment throughout the university, college or school. The lighting must allow students to focus and maintain their attention throughout the day. The right lighting should make it easier to concentrate and ensure that pupils are focused on the task and teacher.

Tamlite also appreciates the need for energy efficiency. As educational facilities have their lights on for long periods, it is important that the lighting system is efficient, provides a quick return on investment, and achieves long-term energy savings. Tamlite manufactures and specifies the ideal lighting solutions for schools and higher education applications, ensuring that Tamlite is top of the class.





Vision Connected Lighting for a Living

Vision Connected Lighting

For students in universities, colleges and schools, concentration is key. To keep people focused from the start to the end of the day, the lighting needs to be right.



Connected lighting gives facility managers the freedom and control to create the optimal learning environment for educational facilities. A connected system ensures that students are comfortable, productive, and stay focused for longer.

50% ENERGY SAVINGS
CAN BE ACHIEVED WITH LIGHTING CONTROLS

Tamlite Lighting's Vision Connected lighting offers customers a wide range of solutions for educational facilities. Letting staff, teachers and facility managers, able to change the lighting design in their classroom with the click of a button, to harmonise the lighting for their needs.

Universities, colleges and schools are all looking to reduce costs, and connected lighting can provide significant long-term energy savings. By taking control of the lighting, ensuring that it is only used when it is required, the energy efficiency of educational facilities can be increased.

Vision Connected lighting can change the environment of your facilities throughout the day. Cool white in the morning and lunchtime, followed by warmer white in the afternoon, Tamlite tunable white lighting provides the right light for students to concentrate all day.



Vision
Connected
Lighting
for a Living



The focus of educational facilities is to provide the right light for students. Wellbeing and comfort in a lecture theatre or classroom is paramount, to ensure that they can concentrate for long periods, minimising stress, to offer the best education possible.

Lighting for Education



Lecture Theatres

Studies have shown that optimised lighting can help improve overall physical health and wellbeing for students and pupils. Deploying more sophisticated lighting control or sensor-triggered systems, makes it possible to adjust lighting settings to match changing requirements throughout the course of the day.



Classrooms

Lighting plays an important role in creating the right environment for the students and the teacher. Using the right kind of light to create an inclusive natural environment, free from distractions and glare, is essential to creating a positive classroom environment and enhancing the performance of each student.



Corridors

Corridors in education environments fluctuate between being totally empty, and full with students. Therefore, the lighting in corridors must be able to facilitate both scenarios. Occupancy sensors and lighting controls can ensure that the lighting is dimmed when the corridor is not in use, and full output when busy. This maintains energy efficiency, reducing energy costs in the long term, and ensures that there is sufficient illumination when the space is crowded.



Sports Halls

The best sports halls need high performance lighting if students are to achieve their sporting potential. These spaces demand lighting that meets strict criteria. It must be robust enough to withstand the impact of fast moving objects - and yet offer the best possible energy saving and low maintenance characteristics. All of this must be coupled with maximum uniformity of light and the least possible glare.



Receptions

Lighting in a reception area plays an important role for making visitors welcome, aiding the transition from outside to inside the heart of the campus, school or college itself. Bright, yet comfortable lighting is ideal for reception environments in education facilities, as it makes students feel familiar with their surroundings.



Emergency

Emergency lighting in educational facilities is crucial, and is a priority for facility managers of universities, colleges and schools. BS 5266 stipulates that emergency lighting must highlight all possible escape routes to the "place of safety", usually at an assembly point outdoors. BS 5266 is a legal requirement, and applies to a range of public sector facilities, including schools. Education buildings receive a number of visitors who may not be familiar with the surroundings, including young children. The emergency lighting, therefore, needs to illuminate the floor to a minimum of 1 lux. This will make escape routes clear, to avoid panic and allow occupants to exit the building.

Education Products

Tamlite has a wide range of products designed for the education sector. The key to lighting for education environments is to provide low glare illumination in classrooms. Our education products are fitted with specialised diffusers, to prevent intrusive light and ensure that staff and students can concentrate for longer.

Tamlite designs education lighting solutions to provide the optimal level of illumination, without causing discomfort. Low glare diffusers and Lambertian distribution of the light ensures that the output levels can be increased without the creation of visible glare. Visible glare can cause headaches and stress, so the use of Tamlite low glare fittings can have significant benefits for students in terms of wellbeing and long-term performance.

Education lighting solutions also need to be energy efficient. According to the Carbon Trust, lighting accounts for around 8% of energy load, but for 20% of the total energy cost. This is down to old fluorescent lighting systems being used in education facilities, which are still costly to run. A switch to high efficiency LED lighting solutions significantly reduce energy costs in universities, colleges and schools, even with the same usage levels.

Talk to us about funding - Tamlite LED solutions can be used in association with Salix Finance.



AXIS

- Recessed LED module with profiled diffuser optic
- Tamlite LG7 I-Tech profiled diffuser provides ceiling illumination with glare control
- Centre nano prism optic for compliance with EN-12464



HORIZON COMFORT

- I-Tech centre diffuser provides accurate light control
- Suitable for use in VDU areas such as universities, schools and offices.
- 3 different outputs for low, medium or high spacing layouts



MODLED LG

- High efficiency LED panel
- Tamlite LG7 I-Tech diffuser optic designed for low glare applications
- High performance LED module and driver



PRIMA

- Extruded polycarbonate diffuser
- Semi opal diffuser for wide beam distribution
- Secured end caps



ARCO

- Modern stylish profile ideal for architects and designers
- High performance LED modules and integral drivers
- Indirect and direct output continuous system



TBX LG

- Low glare I-Tech diffuser provides glare reduction to EN-12464
- Tri-colour easy switch technology from cool white (5000K) or neutral white (4000K) or warm white (3000K)
- Suitable for education applications where a low glare solution is required

Case Study

Kirklees College

Yorkshire

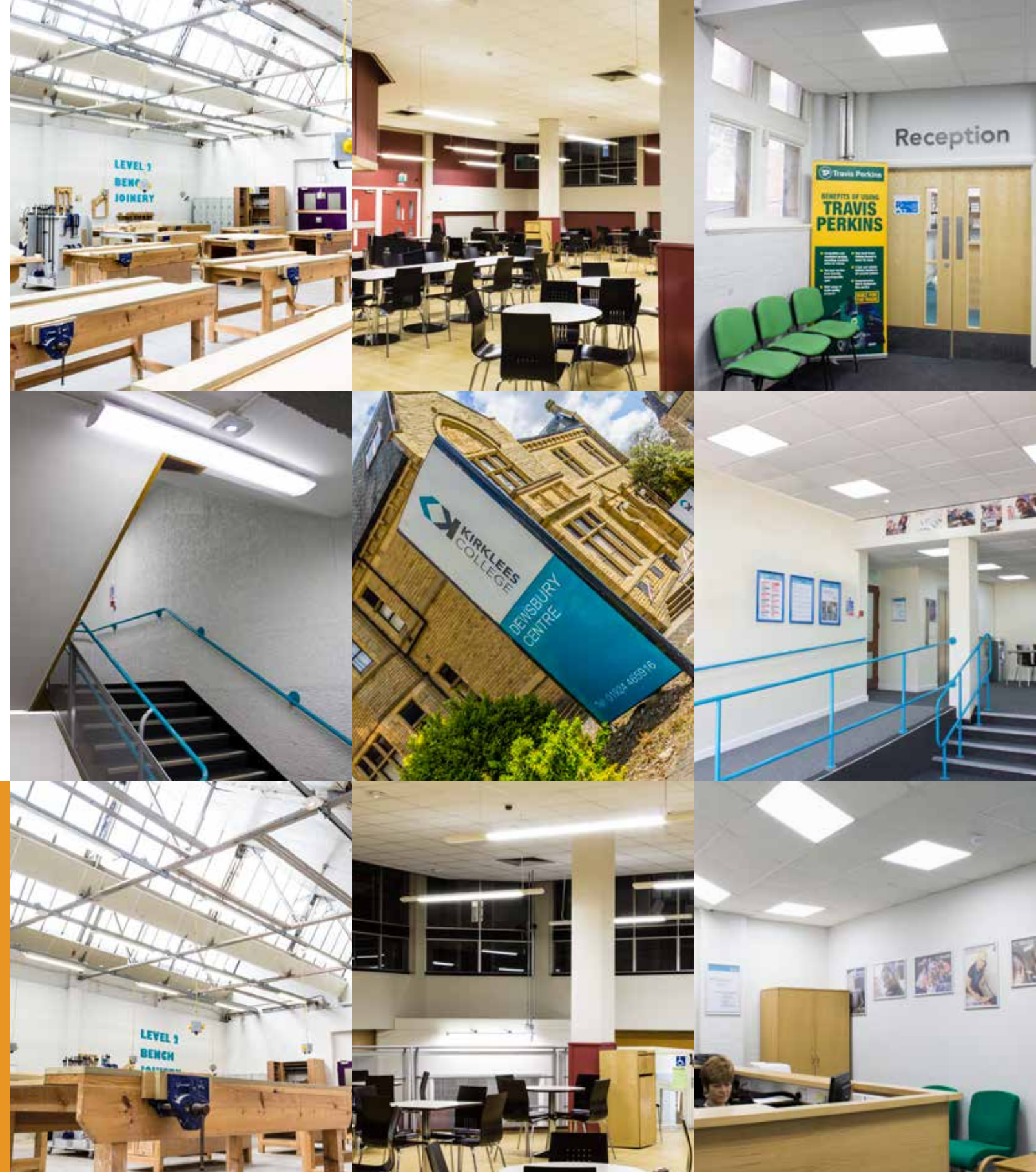
Kirklees College required a new lighting system that would provide better illumination, lower maintenance, and greater energy efficiency. An installation of the latest LED lighting from Tam-lite Lighting dramatically reduced the energy consumption at the college's Dewsbury Centre.

As one of the biggest further education colleges in the country, with more than 20,000 students enrolled at its various Yorkshire campuses, Kirklees inevitably has a high energy demand, with good-quality lighting for its thousands of students forming a large part of this demand.

One of the main areas that required a lighting upgrade were the joinery and technology rooms. These hazardous spaces are liable to dust build-up, so it was important that the lighting was resistant to dust ingress. IP65-rated XTREME solutions were installed for the tech-rooms.

Included in the upgrade were MODLED panels. These low glare fittings are ideal for communal areas and classrooms, as they allow students to focus for longer. In colleges, this is vital, to ensure that students are getting the most out of the facilities.

The new lighting system significantly improved the energy efficiency at Kirklees College, by reducing the power consumption at the site. It was important that the lighting was both energy efficient as well as functional, and Tam-lite supplied a solution that was ideal for the college.



Products Used



XTREME



MODLED



ARCO

Case Study

Hastings High School

Hinckley

Hastings High School, Hinckley, is an 11-16 academy, with over 800 students. As a prominent school in the local community, Hastings knows the importance of providing the best education environment possible for its pupils.

Tamlite Lighting was chosen to supply an LED luminaire and control solution for the school. Ideal light levels without glare is crucial in classrooms. Glare leads to uneven light distribution, eye strain and headaches, which can have a negative impact on the wellbeing of students and staff. To ensure that staff and students maintain focus and concentration within a productive environment, the MODLED LG panels, designed with an I-Tech diffuser, were specified.

Hastings also needed an energy efficient system to replace the old fluorescent lighting. The initial energy saving for Hastings was an impressive 65% reduction in power consumption with the same usage levels. However, Hastings needed a solution that continued to deliver a reduction in energy consumption beyond the initial switch to LED. This has been achieved by installing a variety of Tamlite VISION controls throughout the school. From occupancy sensors alone, Hastings can expect energy savings of £10,950 per annum.

Tamlite EXPO fittings were installed in the main hall and gymnasium. These high-output luminaires are ideal for sports environments and assemblies. In the gym, used for sports such as basketball and football, the fittings are covered with a wire guard, giving extra protection to the fittings.



Products Used



MODLED LG



EXPO

Case Study

Winnington Park School

Cheshire

Winnington Park County Primary School and Nursery has recently completed the development of a brand-new block on its site.

The new building required a lighting system to complement the abundance of natural light, and generous space in each classroom, main hall, reception area and office. It was important that the lighting solutions were ideal to allow young pupils to be comfortable during the school day.

Tamlite Lighting solutions were supplied to the school, in the new building. The classrooms were fitted with Tamlite HORIZON COMFORT luminaires. These are fitted with an I-Tech central diffuser, which makes the beam less directional, but more comfortable.

As the aim of the lighting in the classroom spaces is to provide enough illumination for students to work, the light does not need to be focused on individual desks or people. Fittings were installed at the front of classrooms though, to provide additional illumination on the whiteboard, making it easier for pupils to see.

The downstairs foyer areas were supplied with downlights. These provide a welcoming environment for occupants, with aesthetically pleasing light in the communal space.



Products Used



AXIS



HORIZON COMFORT



LUNAR



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Over 50 years lighting for **a Living**

As a UK manufacturer we have one of the widest lighting ranges across:



Communal



Education



Emergency



Healthcare



Industrial



Office



Retail
& Leisure



Sports



Urban



Warehouse
& Logistics