

Thorlux one

One manufacturer.

One team.

One contact.





Thorlux Headquarters, Redditch, Worcestershire, UK



Contents

| | | | |
|-------------------------|--|-------------------------|---------------------------------------|
| Page 3 | Thorlux One introduction | Page 14 | Financing services |
| Page 4 | Step-by-step – The Thorlux One process | Page 15 | Retrofit/bespoke solutions |
| Page 6 | Project discovery | Page 16 | Digital services |
| Page 7 | Design and planning | Page 17 | Measurement and verification services |
| Page 8 | Installation and commissioning | Page 18 | Why choose Thorlux? |
| Page 9 | Handover and through-life support | Page 20 | Sustainability |
| Page 10 | Services introduction | Page 22 | Customer endorsements |
| Page 11 | Project management services | Page 24 | Contact us |
| Page 12 | Energy saving and ROI services | | |



Introducing **Thorlux** one

Thorlux Lighting knows undertaking a lighting system installation or refurbishment project can be complicated.

This is why we offer Thorlux One: a single-source service designed to support you with your lighting project. We can take care of everything, from design and project management to financing, installation and more.

There are many reasons why now is a good time to upgrade your lighting.

Perhaps a recent Energy Savings Opportunity Scheme (ESOS) survey has highlighted the need for greater energy efficiency on site.

Maybe your building relies on outdated fluorescent lamps, which are becoming difficult to purchase following changes to the Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (RoHS).

Or you might simply be looking to make operational savings by reducing energy consumption or maintenance costs.

Whatever the reasons, let Thorlux oversee your new lighting project, managing the risks and ensuring a successful delivery. Thorlux has years of experience from small upgrades to multi-million-pound refurbishments. We have the team, the experience, and the dedication to deliver your lighting project on time and to budget.

With our flexible UK manufacturing base and dedicated teams of support engineers, Thorlux is the right partner for your project.

One manufacturer, one team, one contact. That is why we call it Thorlux One.

Turnkey process

Step-by-step – The Thorlux One process

A seamless lighting journey.



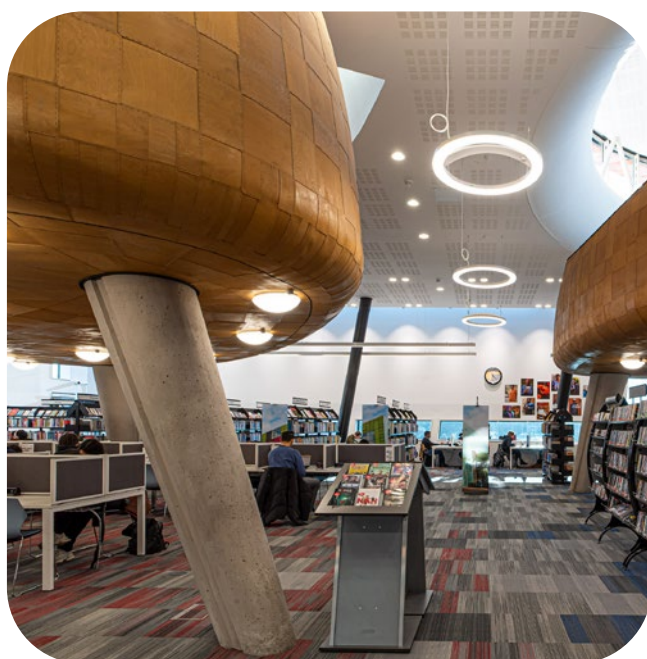
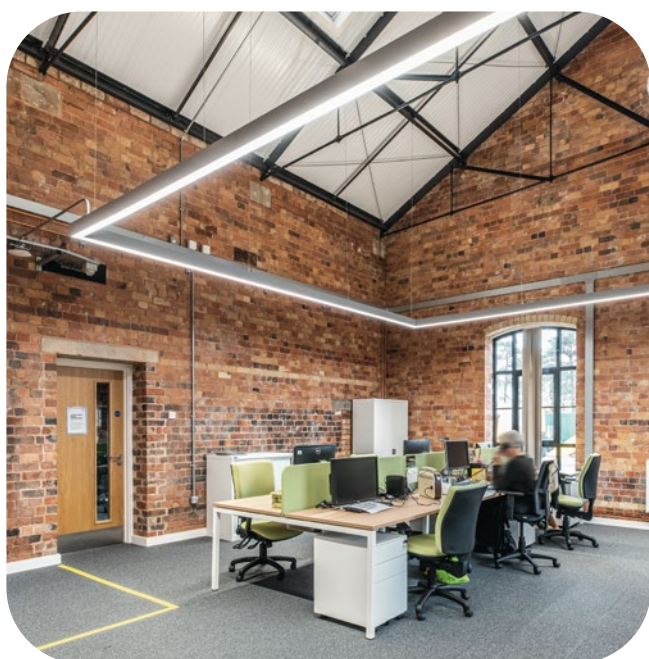
1. Project discovery

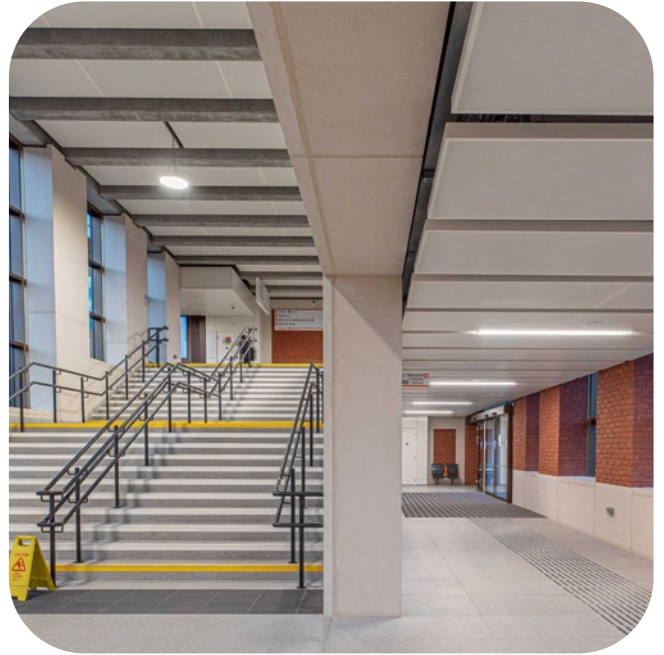
First, we get to know you and establish your objectives. We conduct an in-depth site survey to assess your current lighting system and pinpoint the issues.



2. Design and planning

We design and propose options for lighting systems that significantly increase efficiency and offer impressive returns on investment. We then build the new fittings to order at our UK factory.





3. Installation and commissioning

Our teams of qualified, experienced engineers install and then commission the new lighting system. We plan this process with you to minimise disruption and optimise effectiveness.



4. Handover and through-life support

The last step of the process is to train all relevant personnel to use the new lighting system. All our products are subject to a five-year warranty; support is only a phone call away.



Turnkey process

Project discovery

Innovative lighting, tailored to your requirements.

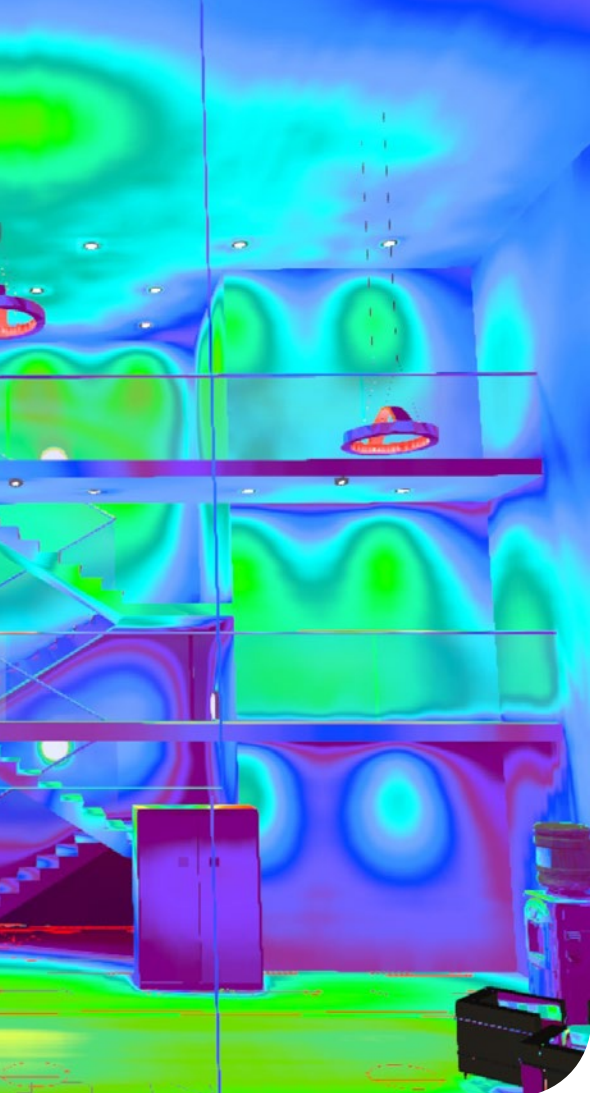
From your first consultation with a Thorlux sales engineer, we will work hard to understand your organisation and your ambitions and requirements for your new lighting system.

You will receive comprehensive expert advice, helping you refine your vision using our knowledge of innovative lighting technology.

Following this initial meeting, Thorlux will conduct a thorough on-site survey. Our experienced surveyors carefully record all current luminaire types and locations, diffusers, emergency lighting, natural light inlets, existing lighting controls, average operating hours, and more. This provides a full picture of your current lighting provision and its limitations, enabling us to establish the potential for improvement.

We then carefully analyse the information gathered from our discussions and survey before the next stage can begin.





Taking the headache out of emergency lighting.

Legally, building owners or employers must provide, test and maintain emergency lighting to help people escape from a building should the need arise. Thorlux can work with you to plan your emergency lighting system ensuring you comply with the latest standards and best practice. Ask us for more information.

Turnkey process

Design and planning

Enhance your space with expert lighting design.

Once we have assessed all relevant information, the award-winning Thorlux design team will develop a comprehensive new lighting concept for your project.

We select the proposed luminaires and controls based on each area's usage and the required light levels defined in current standards.

We will present our findings after we have surveyed your current lighting system, analysed our findings, and developed a new lighting plan. Our dedicated energy team provides a customised usage analysis, quantifying the costs of your current lights and providing an accurate return on investment (ROI) calculation for the new lighting system.

Once the plan is agreed upon and contracts signed, you will be assigned a dedicated Thorlux project manager (*see page 11*), and we will get to work building the new luminaires in our UK facility. Making products to order keeps waste to a minimum, reducing embodied carbon.





Turnkey process

Installation and commissioning

Collaborative approach, seamless execution.

When the luminaires are ready, the installation team gets to work.

All Thorlux engineers and trusted contractors are competent, experienced, and fully qualified. We will collaborate with you to schedule work, so disruption is minimised. Your project manager will be on-site with the team during the installation to personally oversee the team and be your point of contact.

Besides handling all aspects of the new installation, the Thorlux team will also remove your old lighting equipment. Some of the luminaires will be retained for the measurement and verification testing (*see page 17*), while the rest will be recycled and disposed of responsibly.

Once we have completed the installation, our professional site services team conducts the on-site commissioning service for all SmartScan standard and emergency luminaires.

We optimise your new luminaires and the SmartScan lighting management system to provide performance that meets your goals. Thorlux commissioning has helped many customers achieve annual energy savings exceeding 80% - demonstrating this is a crucial part of the process.



Commissioning of lighting equipment and systems is an integral part of the requirements for new buildings and major refurbishments under current UK building regulations. **Paragraph L1(b)(iii) of Schedule 1 to the Building Regulations** requires they be commissioned by testing and adjustment as necessary to ensure efficiency.

Turnkey process

Handover and through-life support

Expert training, ongoing assistance.

The final step of delivering the project is to train all the relevant members of your team to operate and monitor your new SmartScan lighting management system. This includes using the web platform, diagnosing issues, and customising features like emergency testing schedules.

Once you are set up and running, we are only a phone call away if you need help.

The Thorlux product warranty covers five years, with no get-out clauses or convoluted registration process. Our dedicated customer support team is here to offer professional, competent advice.

Thorlux is a long-established UK company, with a nine-decade history. Our customers receive excellent service with environmentally friendly products from a carbon-neutral manufacturer.



Thorlux technical support

Tel: 01527 586400

technicalhelpline@thorlux.co.uk

Mon - Fri, 0845 - 1700 (GMT)





Services

A complete overview
of our offerings.

Thorlux One is more than just a delivery and installation service.

It is our goal to provide you with everything you want – and some things you may not know you need – to take the worry and stress out of making your new lighting system a reality.

When Thorlux takes on your lighting project, you will have access to the services of a dedicated project manager, our energy team, and more. We can help with financing and carbon offsetting. We can even craft customised luminaires or retrofit existing feature lighting to modernise your lighting efficiency and controls without changing the aesthetic of your space.

We follow a straightforward, logical process towards project completion but are always ready to react proactively to changing circumstances. We want to deliver your new lighting, simply and affordably.

Thorlux One: A simple yet comprehensive service for 21st-century lighting.



Services

Project management services

Expert project management, every step of the way.

Thorlux assigns an experienced technical project manager to guide your project from concept to completion, managing all essential parts of the process:



Intrusive surveys



Product selection



Manufacturing orders



On-site health and safety



Progress reporting



Finance and budgets



Handovers



Your skilled and experienced project manager will draw up a programme to deliver the job smoothly. They coordinate designers, engineers, and sub-contractors, managing tenders as required on your behalf. They manage all budgeting, Risk Assessments and Method Statements (RAMS), and Quality, Health, Safety, and Environment (QSHE) processes and are onsite for the installation and commissioning.

Throughout this process, we will consult you on every important detail to ensure your satisfaction. Your project manager is your single point of contact for the entire project.

You won't have to deal with third parties or be distracted by minor concerns - your Thorlux project manager will handle everything on your behalf.

Services

Energy saving and ROI services

Illuminate your savings potential.

Thorlux Lighting has a dedicated energy team that provides customised usage calculations. The team establishes how much your current lighting equipment contributes to your bill, how much carbon you generate, and how much you could save by adopting a controlled lighting system.

The detailed energy estimation process also allows Thorlux to accurately calculate the return-on-investment period, after which the new lighting system will have paid for itself through energy savings. Higher energy costs have impacted

ROI periods positively, making them even shorter - so you will start saving sooner.

This process is so accurate that we will guarantee energy savings!

You will receive detailed calculations comparing your current set-up with our proposed solution. The report will highlight essential metrics so you can see where you are now and the real difference modernising your lights will make, including:

Estimated power consumption and costs of the current system

Power usage per annum – current system versus proposed Thorlux system in kWh

Cost savings per annum – versus your current expenditure as a monetary value and percentage

CO₂e reductions per annum – greenhouse gas generation avoided in kilograms

CO₂e remainder options – how many trees we can plant on your behalf to offset your remaining CO₂e generation*

ROI period – how long it will take to offset your investment and start to save. We base our calculations on current and anticipated tariff costs

** We will include recommendations for this in your quotation.*





Case study

Rhind Building, City, University of London

Thorlux Lighting has collaborated closely with City, University of London, to upgrade outdated light fittings in its Rhind Building on St John Street to the latest energy-efficient LED lighting technology.

The Rhind Building contains several lecture rooms and meeting spaces that are used regularly. However, the lighting system consisted of dated fluorescent technology and required an upgrade; the university aimed to enhance energy efficiency and reduce carbon emissions.

Seeking a sustainable solution, the university chose to retain the existing multi-function chilled beams at the Rhind Building rather than replacing them with new fixtures. Thorlux provided customised retrofits to replace the existing lamps and covers, re-engineering the current chilled beam chassis. The retrofit was completed on-site by Thorlux engineers and was scheduled around lectures and other events to minimise disruption for staff and students.

Thorlux retrofitted 1,260 luminaires in the Rhind Building, achieving an energy saving of 94% compared to the previous lighting system, with a predicted annual electricity saving of £194,498.72. The award-winning SmartScan lighting management system now controls the retrofitted luminaires, integrating maintained illuminance, daylight dimming, and presence detection to maximise energy savings.



94%
Energy
saving

125,387kg
CO₂e
reduction

£194,498.72
Annual saving



Services

Financing services

Lighting solutions, made affordable.

Thorlux offers flexible funding solutions from **Mitsubishi HC Capital UK Plc**, a leading financial services company with over four decades of experience and nearly 1.3 million customers.

Thorlux has a Partnership Agreement with Mitsubishi, allowing a range of funding models, tailored to your specific requirements. Payments can be spread over a negotiated period with zero upfront cost.

Your Thorlux representative will be happy to run through the options with you.

Upgrade for zero capital costs

- Flexible funding models
- Help manage your cash flow
- Tailored funding solutions to suit your specific requirements

Generate savings from day one

- Payments spread over several months with zero upfront cost
- Annual gross savings aligned to be more than annual gross costs, potentially giving net financial savings from day one
- Savings could pay for equipment whilst still reducing energy and carbon

Services

Retrofit/bespoke solutions

Personalised lighting solutions.

Thorlux has a long history of providing retrofit and custom lighting solutions. Our flexibility, experience and in-house manufacturing enable our engineers to implement lighting solutions that balance environmental, aesthetic, and economic considerations.

Retrofit projects will frequently use pre-existing Thorlux-designed LED circuit boards to maximise cost-effectiveness. Besides replacing lamps and covers, we can re-engineer and refurbish a luminaire's chassis to keep it in service.

Our multi-million-pound investment in metal forming machines means we can design and manufacture custom luminaires that meet your needs and expectations. Whether modifying a standard product in our range or creating an original design, we can make the perfect luminaire for your project.

Incorporating Thorlux SmartScan controls increases energy efficiency further, adding oversight through the SmartScan web platform.





Services

Digital services

Intelligent lighting, intelligent savings.

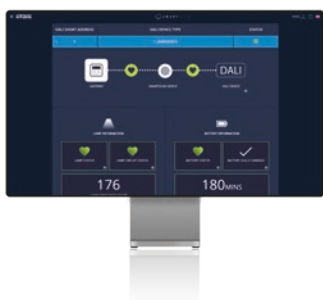
Thorlux SmartScan is a revolutionary wireless lighting management system that monitors energy performance and operational information for connected standard and emergency luminaires. This information is displayed on the password-protected SmartScan website which is accessible on any internet-connected device, providing deeper insights to help manage your site.

Energy consumption measurements are accessible for an entire installation, individual rooms, or each luminaire. Data is displayed in kilowatt-hours (kWh), cost, and corresponding carbon values. Where the prior energy usage for lighting is known the system will also display a cumulative total of achieved savings. The online portal supplies a lighting overview of your entire site.

SmartScan is a feature-rich system that can provide intelligent lighting management, status monitoring, occupancy profiling, reports on air quality, and much more. With the expanded SmartScan Analytics system, there is even greater scope for efficiency and improved well-being.

Using the lighting network to carry other service or asset communications removes unnecessary duplication, and installing specialist sensors, data loggers and volt-free contacts onto other assets enables the capture of data for analytics. The system can monitor gas, water, electricity, air quality, carbon dioxide levels, and more.

COMPLIANCE

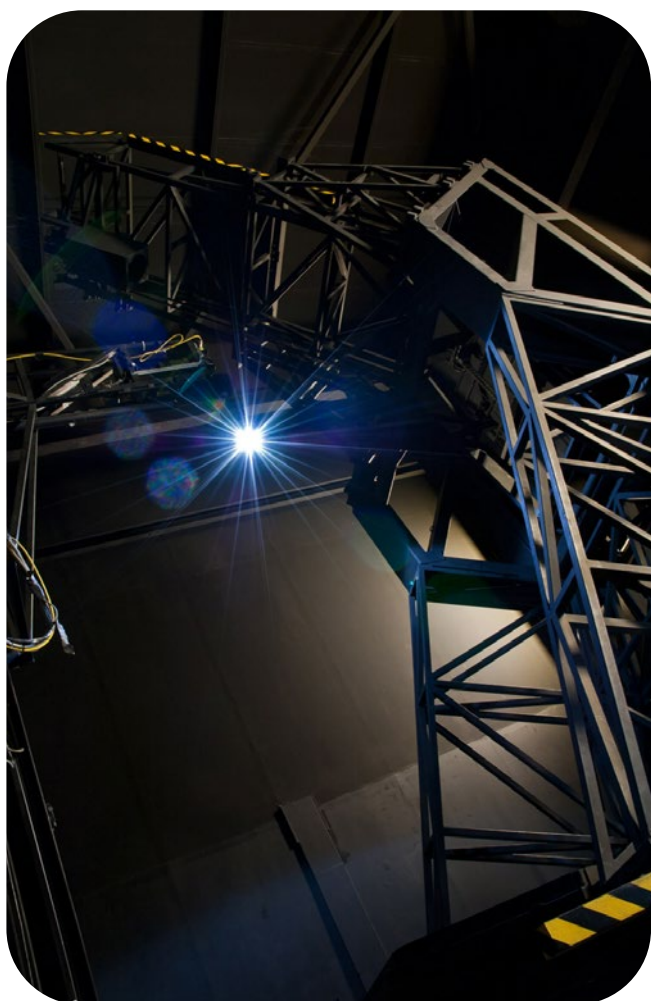


CONTROL



CHANGE





Services

Measurement and verification services

Quality testing, guaranteed performance.

Thorlux conducts in-house testing to compare the performance of our luminaires with your old lights.

When the installation phase is nearing completion Thorlux will invite you to see a measurement and verification (M&V) test, checking the performance of the fittings we removed during the installation phase with that of your new luminaires.

We conduct this test at our in-house, LIA (Lighting Industry Association)-certified laboratory. This way, we can accurately measure power consumption and verify cost savings and energy reductions.

Thorlux is so confident in the test accuracy and efficiency calculations that we will guarantee the value of your savings.

Why choose Thorlux?

Reliability you can depend on.



Made in the UK

Thorlux Lighting, the largest company in the FW Thorpe Plc group, is proud that over 90% of its products are manufactured in the UK.



Ease of maintenance

SmartScan allows the user to view full luminaire status. LED PCBs and modules are replaceable should a failure occur.



Five year warranty

A genuine warranty with genuine value. A long and stable history reassures Thorlux customers that its warranty is meaningful.



Lighting management

The SmartScan lighting management system incorporates building management functions including occupancy profiling and air quality sensing. The addition of Built Environment Analytics also gives users a greater understanding of how their facility performs in operation.



Quality and reliability

Rigorous product testing is essential in maintaining our reputation for reliability and quality. All Thorlux materials, components, subassemblies and finished products are subject to stringent quality control, as demonstrated by the company's BS EN ISO 9001:2015 (Quality management systems) certification.





ISO 9001



ISO 14001



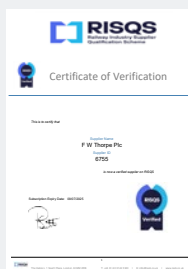
ISO 27001



ISO 45001



**Constructionline
PLATINUM**



RISQS



Safecontractor



Achilles



Building safety and compliance

The Thorlux SmartScan wireless emergency testing system ensures full compliance and peace of mind.

Delivering full energy performance reports, emergency lighting status, luminaire status and management of emergency lighting testing dates/times.



Low total cost of ownership

Thorlux luminaires are rapid to install, energy efficient, low maintenance and have a long lifespan resulting in a truly cost effective solution over the lifetime of the installation.



Environmentally friendly

For the last two decades, Thorlux has worked hard to reduce its environmental impact. Investment in our plant and equipment has allowed Thorlux to reduce its carbon emissions, for example, 100% of electricity use comes from renewable sources, including self-generation through 3,138 photovoltaic panels installed on the roof of the facility. But recognising there is still much to do, Thorlux has set an independently verified target of achieving net-zero emissions by 2040.



Energy saving

Thorlux lighting controls combine maintained illuminance, daylight dimming and presence detection to maximise energy savings, in some instances in excess of 80%. SmartScan allows users to monitor their energy performance data and complete operational information for all SmartScan standard and emergency luminaires. This information is displayed on the SmartScan website which can be accessed from anywhere using a computer, laptop, tablet or smartphone.

Sustainability

Lighting a greener tomorrow

On a journey to net-zero by 2040.

For the last two decades, Thorlux Lighting, as part of the FW Thorpe Plc Group, has worked hard to reduce its environmental impact, and we are proud of the progress made.

But, recognising that there is still much to do to safeguard the environment and avoid the worst effects of climate change, Thorlux and the FW Thorpe Plc Group have set a target to reach net-zero greenhouse gas (GHG) emissions by 2040, ten years before the UK government's 2050 net-zero target.



A validated net-zero target.

FW Thorpe Plc has committed to reaching net-zero greenhouse gas emissions across the value chain by 2040.

The Science Based Targets initiative (SBTi) has validated these science-aligned targets:

Near-term target

FW Thorpe Plc commits to reducing absolute scope 1 and 2 GHG emissions by 57.5% by FY2030 from a FY2021 base year. FW Thorpe Plc also commits to reducing absolute scope 3 GHG emissions by 25% within the same timeframe.

Long-term target

FW Thorpe Plc commits to reducing absolute scope 1 and 2 GHG emissions by 90% by FY2040 from a FY2021 base year. FW Thorpe Plc also commits to reducing absolute scope 3 GHG emissions by 90% within the same timeframe.

Thorlux Lighting has been carbon neutral since 2012 through a combination of measures. Company-wide initiatives such as energy use minimisation, self-generation through solar photovoltaic (PV) units, and renewable energy procurement have reduced Thorlux's carbon footprint, whilst trees in our award-winning carbon offsetting afforestation project sequester the remaining carbon dioxide produced. Our carbon-neutral status is independently verified as per ISO 14064-1.





Sustainability at Thorlux

Our commitment to sustainability and the environment

Sustainability and the environment have been at the core of Thorlux for many years and we have always been committed to doing the right thing for both people and the planet.

We have worked hard to reduce our environmental impact of our manufacturing and selling activities, and consider carefully the implications our products have during their life and at the end of their life. Through our environmental monitoring programme, which is independently certified to the environmental management standard ISO 14001, we continually measure and improve our environmental credentials.

"Thorlux has a long-standing commitment to tackling global environmental challenges, principally through its core business of manufacturing energy efficient lighting equipment. The company has a genuine desire to become a more sustainable business.

"Over the last two decades, at Thorlux we have sought to address our carbon impact by working towards carbon neutrality for our manufacturing and distribution operations. It gives me huge pleasure that our hard work and ambitions have paid off in achieving our carbon neutral status both now and historically.

"But our work doesn't stop here. By assessing our carbon impact right across our manufacturing and value chain then setting science-based targets in line with the Paris Agreement on climate change, our goal is ultimately to reach zero carbon status well before the UK's target for achieving net zero carbon emissions by 2050. Watch this space."

Michael Allcock

FW Thorpe Group Chairman

Customer endorsements

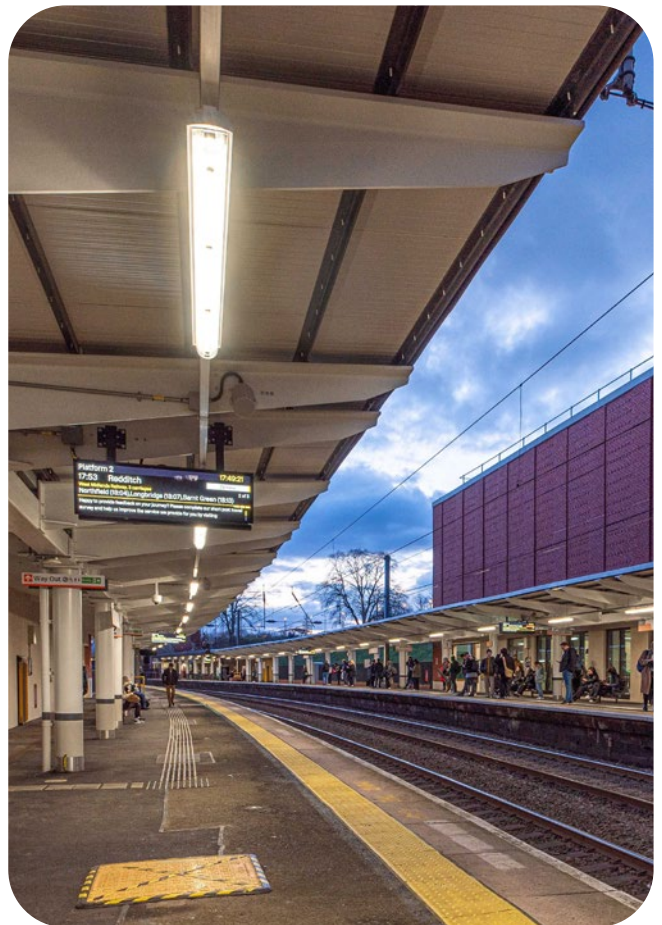
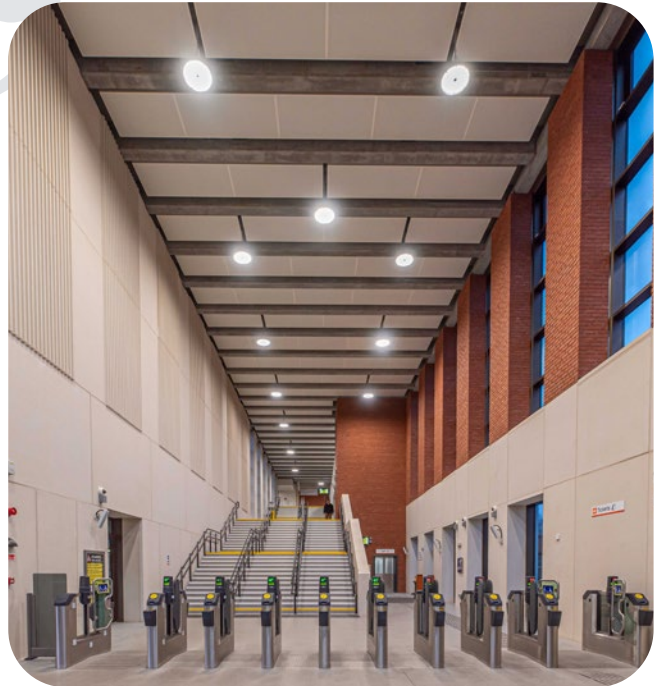
Genuine testimonials from our valued clients



Adam Henshaw

Operational Asset Manager, Transport for West Midlands

"The installations were completed with minimal impact on customers and operations, and communication was very clear between all parties. We now have three bus stations equipped with the SmartScan system. We are extremely pleased with the outcomes, particularly in terms of the customer environment, lux levels, portal access, reporting, lighting control, and the associated cost savings from both planned maintenance and utilities.."



Andrew Montgomery

Deputy Director of Estates, Facilities & Capital Development, Northern Care Alliance

"Thorlux has provided outstanding service from sales to aftercare, delivering the project professionally and efficiently. The SmartScan system has greatly improved our emergency lighting management, offering valuable insights into occupancy and other key metrics."



Claire Hall

Associate Director of Strategic Business Planning, United Lincolnshire Hospitals NHS Trust

"Sustainability, energy efficiency, and carbon reduction are at the heart of our management policy... Thorlux SmartScan luminaires have delivered a 91% energy saving compared with the previous lighting installation, resulting in electrical operating savings of £398,570 per annum."

Contact us

Thorlux is here to take control of your project and successfully deliver it.

Simply get in touch via **ThorluxOne@thorlux.co.uk** to begin the process.



Innovating sustainable lighting solutions for a brighter future

INDUSTRIAL LUMINAIRES
COMMERCIAL LUMINAIRES
FLOODLIGHTING LUMINAIRES
ARCHITECTURAL LUMINAIRES
HEALTHCARE LUMINAIRES
HAZARDOUS AREA LUMINAIRES
RETAIL AND DISPLAY LUMINAIRES
CONTROLS AND SYSTEMS

A DIVISION OF F.W. THORPE PLC

Thorlux Carbon Offsetting Project:
www.thorlux.com/trees

The information given in this catalogue is typical and must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.

Thorlux Lighting
Merse Road
North Moons Moat
Redditch
Worcestershire
B98 9HH
England

T +44 (0)1527 583200
F +44 (0)1527 584177
E thorlux@thorlux.co.uk
W www.thorlux.com

Direct UK Sales Line: 01527 583222

Thorlux Lighting Ireland
Unit G6
Riverview Business Park
Nangor Road
Gallanstown
Dublin 12
Ireland

T +353 (0)1 460 4608
F +353 (0)1 460 4609
E thorlux@thorlux.ie
W www.thorlux.ie

Thorlux Lighting Australasia Pty Ltd.
31 Cross Street
Brookvale
Sydney
NSW 2100
Australia

T 1300 04 32 32
T +61 (0)2 9907 1261
E thorlux@thorlux.com.au
W www.thorlux.com.au

Registered No. ABN 139 400 507

SchahLED Lighting GmbH
Max-Planck-Str. 9
85716 Unterschleißheim
Deutschland

T +49 (0)89 90 11 98 20
E info@schahllled.de
W www.schahllled.de

