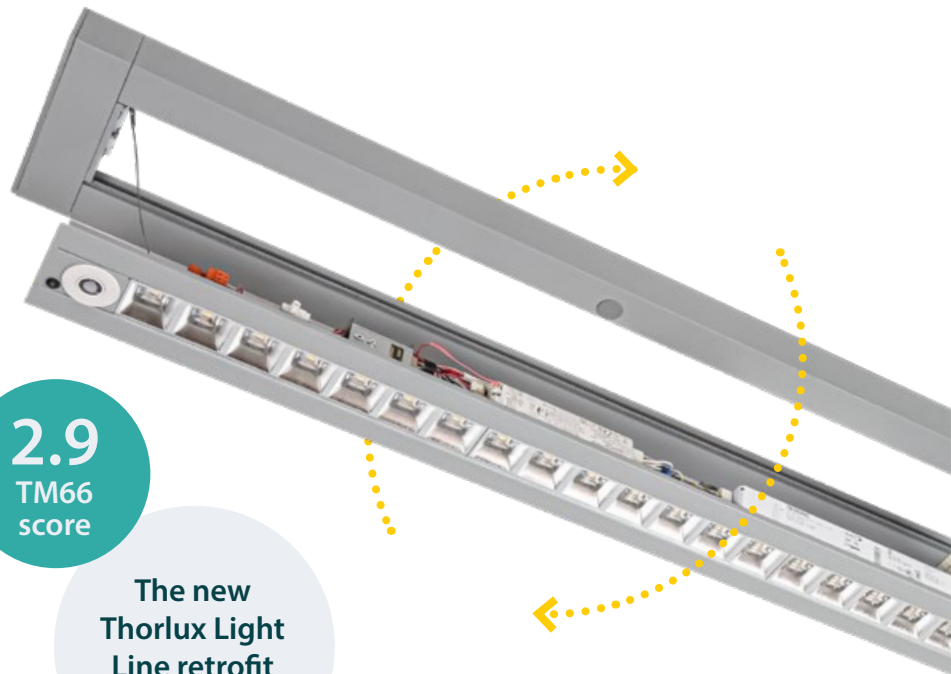


Circularity in lighting.

As we gradually reach the point of depletion of the earth's finite resources, the linear method of taking materials, making products, and then throwing them away at the end of life needs to be re-thought. This is where the concept of the circular economy is becoming increasingly important.

What is the circular economy?

The key principles of the circular economy are to eliminate waste and pollution, circulate products and materials, and regenerate nature. Products and materials are kept in circulation for as long as possible through maintenance, reuse, refurbishment and remanufacture, then, once the end of life is reached, recycling and/or composting takes place, ensuring nothing is lost. The circular economy looks to move away from the 'take-make-waste' pattern, into a more sustainable and regenerative one.



2.9
TM66
score

The new
Thorlux Light
Line retrofit
solution

Why is circularity important?

FW Thorpe Group companies have always considered the impact of their products on the environment. Key circular principles such as product efficiency, longevity and maintainability have always been pillars of the design process, long before the topic of circularity became mainstream. Combining highly efficient luminaires with a lighting management system such as SmartScan ensures lighting uses the minimum energy possible (therefore producing less pollution).

Group companies ensure luminaires last as long as possible by using high quality parts, materials and manufacturing techniques. In most cases, luminaires are designed to last an impressive 100,000 hours.

In addition, the vast majority of Group products can be serviced easily in situ, keeping them operating and in use for longer.

Looking forwards, the Group believes that engaging in the circular economy is not only the right thing to do from an environmental point of view, but also from a business perspective. Embracing the circular economy stimulates innovation and the development of new products and services, and offers inspiring new business opportunities such as remanufacture, retrofit and renovation projects.

Circularity is now further embedded in the Group Product Design Rules, so that the following practices are incorporated into each new design:



Using less material in the design



Choosing more sustainable materials



Making products last even longer



Making products easier to repair



Optimising material utilisation



Making products as efficient as possible



Making products easier to strip down and recycle at end of life

What is TM66?

The Chartered Institution of Building Services Engineers (CIBSE) and the Society of Light and Lighting (SLL) have written TM66, a document that provides guidance on how to assess the circularity of a luminaire, including a checklist and real-world examples of good practice. TM66 is an exacting framework that demands proof of the highest standards from lighting product designers and manufacturers.

Off the back of this, the Lighting Industry Association (LIA) has developed TM66 Assured, a scheme where by luminaires can be independently assessed and scored in accordance with TM66. This means that manufacturers can independently verify their circularity claims, and customers can gain comfort from this third-party approval.

In October 2023, the new SkyCore range from Thorlux was the first Group company range to be independently assessed by the LIA TM66 Assured scheme. The SkyCore range received a score of 2.5, certifying it as being 'excellent' – the highest achievable level of circularity.

As a part of Thorlux's drive to improve the circularity of its products, all new Thorlux luminaires will be scored and independently assessed and verified in accordance with TM66 Assured, with the target of meeting a minimum of 'excellent'.

In April 2024, TRT made history with its new Oaken streetlight. Achieving an impressive score of 3.1, Oaken gained the highest verified score for any luminaire in the TM66 Assured scheme at the time. Oaken is a highly innovative luminaire made from recycled polycarbonate and aluminium, housed in an oak body.

FW Thorpe Plc prides itself on its position as a market leader and always being at the forefront of emerging and pioneering movements, concepts and technologies, continually recognising the changing needs of not only its customers and dynamic industry, but also the planet.

The Thorlux Flexbar has achieved a score of 2.6