Thorn arrives in force

Yes - it’s a show of force from Thorn at this year’s Light + Building show - Frankfurt, 6-11th April

Thorn has a real show-stopper stand (Hall 2 / B31) just brimming with the very best in fabulous, new lighting ideas! And, ideas that promote the PEC brand promise of performance, efficiency and comfort. We said ‘force’ and that’s what we mean! The Thorn X-Force range is going to be a real winner with everyone who wants a safe, dependable and rugged unit for lighting hostile environments. X-Force is just one of a whole new series of great luminaires and systems from Thorn. Watch particularly for:

X-Force  A range of five fluorescent ‘proof’ luminaires to meet specific situations: ImpactForce, CorrosionForce, ColdForce, HeatForce and StormForce. And it has performance as well as toughness - high efficiency T16 lamps combine with clever optics to achieve high levels of illumination. Packed ready to install with Quick-fix brackets. Connect versions also available.

Cruz  Scheduled for imminent market introduction this range of comprehensive and technical downlights features a patented Quick-fix method and optics giving class leading light output with excellent glare control. With wattages ranging from 13-150W, 12 compact sizes and a wide selection of attachments, Cruz is a really exciting prospect for offices, schools and all other interior spaces.

Plurio  A package of decorative post-top lanterns and co-ordinated columns that gives a new versatility to urban spaces. Plurio embodies Thorn’s light philosophy: PEC. Thanks to its cleverly designed multi-facettied reflector, it delivers maximum performance and spacing; high efficiency with no obtrusive light; and - above all - a feeling of increased safety and comfort. There are five designs, covering semi-spherical, conical and lampshade styles, to match most architectural styles.

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L+B 2008 in numbers

- 135,000 - The number of expected visitors
- 1,500 - The number of lighting exhibitors
- 66 - Total number of exhibits that will be displayed by Thorn to help spread its PEC brand message
- 2.0/B31 - Thorn’s stand number,
- 1 - The fair adds an extra day, now open for six days instead of five

Important
Thorn email addresses are now: name.surname@thornlighting.com
Please update your records
LED accomplishments

At a time when conservation is in everyone’s mind, Thorn is showing a selection of all-new LED based fittings, which save current, maintenance and materials. Together they herald a new era in lighting.

**Contrast LED** This powerful, slim section, LED projector is just the thing for outdoor architectural floodlighting. It comes in monochromatic and RGB colours and accepts the Contrast range of refractors and attachments, allowing beam shaping.

**Band Intensive** An 800mm long strip-module with 36 high power LEDs. Directional optics create a broad band of light, suitable for illuminating building façades, columns, towers and pillars.

**Mica Slim LED** Remember, we showed the ‘walkover’ E/Fact Slim two years ago. We now introduce a slim new ‘driveover’ version. There’s a wide choice of LEDs and lamps for guidance and illumination lighting.

**Adelie** A cool-looking indirect lighting lantern. Light emitted from a ring of LEDs around the column, is captured by the narrow funnel shaped canopy.

**Voyager LED Spot** With its strong directional beam, this LED spot is a leap forward in the design of emergency lighting. It has been developed to light areas off the designated escape route, such as fire extinguishers and call points.

Above: Thorn’s colour-changing LED luminaires have been chosen by ‘light sculptor’ Patrick Rimoux to light Saint-Josse commune’s previously neglected pedestrian and road underpass, Pont Brabant, in Brussels, Belgium.

Photo: Patrick Rimoux
Glacier II pendants One new terrific shape in two sizes offering a choice of reflectors and light sources.

Primata II The new pre-wired trunking range will create a lot of interest with those who deal with supermarkets, exhibition halls and factories. At the Show, a bold new Deco version is displayed for the first time. Thorn has carried out pre-show trials with customers and the unanimous verdict was: “One of the easiest - if not the easiest trunking system - we have ever installed. A time saving product, as well.”

LumExpress Another slim, good-looking and practical fluorescent fitting is Diffundi, one of many welcome additions to the ‘best value’ LumExpress brand.

Sensa Modular and Advanced Two sophisticated lighting control systems.

Road lanterns: Among these will be the Celest, a new compact fluorescent lantern; the second generation Civic; and the sleek Dyana. They are joined by Satys, a series of design co-ordinated columns and brackets aimed to help planners transform the urban streetscape.

Looking forward to seeing you at L+B! May the force be with you!
A tale of two cities

As part of a corporate social responsibility project, Thorn is to illuminate heritage sites in the historic city of Jericho on the Palestinian West Bank.

The project is the outcome of a co-operation (also known as ‘LightLinks’) with The Lighting Urban Community International Association (LUCI), an international forum of cities and key players in public lighting. It aims to contribute to the development of urban lighting in disadvantaged communities or regions by encouraging cities from low and high income countries to partner together.

The first beneficiary is Jericho, who will receive assistance from the City of Lyon. Officials from both cities have drawn up preliminary lighting concepts for heritage sites chosen by the Palestinian Ministry of Tourism. The sites are the giant tree of Zacchaeus, which is over 2,000 years old, and the ruins of Hisham’s Palace with the magnificent Tree of Life mosaic. It is hoped that a third site, the Mount of Temptation, will also benefit from the initiative.

The aim is to light the sites after nightfall, adding to their appeal as tourist attractions and generating tangible benefits for the local community.

Backed by expertise from municipality engineers in Lyon, Thorn will supply the lighting equipment, in late spring, along with visualisations for the schemes.

The project will provide Jericho with the resources and expertise it would have been unable to access without the assistance of Lyon and Thorn. Noha Rashmawi, official representative of the City of Jericho, said: “Lighting key architectural and natural elements of our heritage is by no means a frivolous thing in these difficult times. It is essential for the promotion of peace and economic development in our region - a light at the end of the tunnel, so to speak.”
Light is life, without light we could not live. Our human physiology is based upon light and the complex structure of our earth relies upon light to function. And as we have progressed technologically we have taken this further, turning the dark into light, from using fire to the electric light. Electric lighting is the basis for our modern society, turning darkness into light in windowless or deep-plan offices, in our city streets at night, in numerous leisure and amenity facilities. Our society exists as it does because of light. Our patterns of work and leisure are made possible through our ability to control our environment and supply light on demand.

As we have developed the technology of lighting we have also developed our understanding of how to use light. Through standards we lay down limits for safety and adequacy, through guides we direct lighting toward established good practice, show how to transcend the adequate. We have learnt how to give light meaning, transforming spaces by giving them a lit atmosphere, applying light to give beauty to a scene.

But the use of light is constantly challenging us. It is no longer enough to ensure good task visibility, or a comfortable environment. It is not even enough to produce an environment that gives a sense of well-being. We need to do all these, but also in a way that minimises harm to the environment. Therefore stricter rules are being applied to product design, use and disposal. We have to minimise the carbon footprint of a product or an installation and maximise sustainability. Therefore, all aspects of design, whether for a luminaire or lighting installation, is a balance of factors, performance, efficiency and comfort (PEC).

Performance is the achievement of visual effectiveness, meeting requirements and targets. It is quantifiable through known lighting measures such as illuminance, luminance, glare rating, colour rendition and uniformity. These measures are generally defined through national and international standards and recommendations.

There is an immense amount of useful information in it. Far from being a mere promotional document it offers good-practice application advice for those aspects of daily life where lighting plays its inseparable part in improving the quality of the lit environment...hospitals, city streets, offices, factories, schools, supermarkets, sports facilities and urban spaces. Recommendations are given for specifics, such as emergency lighting, maintenance and controls.

The handbook also features current information on the mechanics of seeing; controlling light; lamps and circuits, including fault detection; explains the new directives and standards; and wherever possible provides illustrated examples and worksheets.

The book - obtainable from Thorn - is the bridge between considering better lighting and achieving it.

A new, 150 page, pocket-sized Technical Handbook has been produced to provide electrical contractors, specifiers, users, municipalities, public authorities and other lighting professionals with an authoritative and comprehensive guide to professional lighting
The Thorn Product Explorer is now available on CD-ROM. It features an electronic catalogue with an intuitive user interface including powerful search functions.

The CD delivers rapid access to comprehensive product data covering the complete Thorn product portfolio, from installation sheets to photometric data. Equally importantly it can be used as a data plug-in for the programs DIALux and Relux Professional to allow lighting calculations to be performed using Thorn data within these popular design tools.

LumExpress - lighting that lives up to its name

In a blaze of colour, Thorn is launching a wide array of new luminaires under the 'LumExpress' brand. LumExpress is the company’s service programme for the distribution of popular luminaires through wholesalers and has become one of the most recognised lighting product ranges at trade counters across Europe.

Quality, dependability, ease of fixing and availability are the hallmarks of LumExpress. The competitively priced range offers a diversity of products designed to meet the everyday needs of electrical contractors. New waterproof, emergency and exterior wall lights have been added to the standard range of recessed and surface fluorescents, industrial lights, downlights and outdoor units.

Designed specifically to assist customer choice, the packaging and dispensers are refreshing in their approach to luminaire merchandising and will be welcomed by busy wholesalers. Bright red and white will become synonymous with the range.
During its short life, Orus has been honoured with an NICIEC Award, a coveted American Lightfair trophy and a notable French ‘star’.

Orus first gained industry recognition at the NICEIC’s 50th Anniversary and Electrical Industry Awards Gala Dinner in London on 20th September 2006. The judges were impressed with the lantern, which incorporates a compact low wattage metal halide lamp in a special Flatbeam® bi-directional asymmetric optic. Leading BBC broadcaster Jeremy Vine presented the award for Best Electrical Product Innovation.

Just seven months later Orus was rewarded at Lighting Fair International, held in New York City, beating 138 entries to win the prestigious Design Excellence Award. The entry was submitted by the company’s US agent, North Star Lighting.

Innovation proved the driving force, once again, in October 2007, when Orus gained a ‘star’ for good design at the Observeur Star awards, organized by APCI – the Agency for the Promotion of Industrial Creation, in Paris. The Stars of the Design Observeur are given to the best product creations from all sectors of industry. Finally, the following month Orus took its fourth major trophy at the Salon des Maires Trade Show in Paris.

“Thorn is delighted to receive such international recognition, especially for innovation” said Hugh King, PR manager at Thorn. “Customers are already finding new ways to light bridges, airport approach roads and remote highways and Thorn is helping every kilometre of the way”.

It has been an extremely rewarding two years for Orus, the breakthrough road lantern for low level mounting, since its launch at Light + Building 2006.
PEC - delivering quality lighting, sustainably

The recently introduced Performance, Efficiency and Comfort programme (PEC) achieves what many people consider impossible - to enhance the quality of light while conserving our natural resources.

The use of light is constantly challenging. It is no longer enough to provide good task visibility, or a comfortable environment, or a setting that gives a sense of well-being. Lighting practitioners need to provide all these, but in a way that minimises harm to the environment, hence stricter rules are being applied to product design, use and disposal. Designers have to minimise the carbon footprint of a product or an installation and maximise sustainability. Therefore all aspects of design, be it for a luminaire or scheme, is a balance of factors - a balance of performance, efficiency and comfort (PEC). Each time, the relative importance of these components will vary, while the underlying concept ensures a consistent, high-quality and sustainable outcome.

The best way to appreciate and evaluate PEC is to see it in action. Here we illustrate the benefits while showing that PEC works equally flexibly in any lighting application, from a high tech office to a truck stop or building façade.

Gateshead Council in North East England has a lighting scheme in the Civic Centre offices which has produced a superior working environment with a 68% saving in energy costs. These before and after pictures show the results.

More than 4,000 luminaires of 1980s vintage (using 4 x 40W U-tubes) have been replaced with luminaires based around the Cinqueline SR. Each has 4 x 14W T16 ‘daylight 6500K’ lamps, dimmable electronic ballasts and built-in Sensa 3 lighting controls to respond to daylight and presence/absence. The new units and infill panels are a perfect fit with the building’s coffered ceiling, allowing replacements to be fitted quickly, from below. And there’s more good news for environmentalists - Gateshead has disposed of its old fittings in a WEEE Directive-friendly manner.

Better light for a third of the cost
Strikingly imaginative

TATA Consultancy Services’ new global process delivery centre in Chennai, south-east India, boasts what is probably one of the country’s most unusual combinations of advanced lighting technology.

The workstation areas have been lit with circular T16 Soul luminaires and Fata Morgana uplights - fittings which have literally turned conventional lighting techniques upside down. Imaginative use of the latest lighting equipment has created an extremely pleasant environment in which to work, while the lighting design is both aesthetically pleasing and energy conscious. The elegantly designed Fata Morgana pendant provides the primary light source. Mounted above the workstations they throw pools of light upward and draw attention to the offices’ main architectural feature, designed by Edifice.

The overall effect is a well-balanced, glare-free environment that is inviting, stress free and helps boost productivity.
Putting the fire back into revamped steel works

Blast furnace U4, the last surviving production unit of the now preserved Uckange steel mill, in north-eastern France, has been spectacularly lit with floodlights. Classified as a historic monument in 2001, ten years after its fires went out; the 118-year-old foundry can now be visited as a park dedicated to industrial heritage.

Inspired by the power and drama of Uckange as it used to be, and needing to raise the public’s awareness of such a powerful symbol of cultural significance, artist Claude Lévêque has used Thorn products to great effect.

The building is floodlit with a mixture of Mundial (1kW), Qba (150W) and Contrast (70-400W) metal halide floods, creating a glowing, low intensity, light because of the different coloured filters.

Photo: Alain-Marc Oberlé/ADAGP Claude Lévêque

Telea controls help truck stop to save energy and manage traffic

If you’ve ever passed a truck stop during the hours of darkness, you’ll have witnessed the lighting blazing away. Besides the wasted energy and cost there is often considerable light spill. The Kettenanlageplatz parking stop at St Christophen, on the A1 highway from Salzburg to Vienna, where truck drivers apply snow chains in the winter, is fighting back against energy waste by installing 44 Oracle lanterns with Telea outdoor lighting controllers.

With the lanterns allocated in three groups and the 1.5km service lane under CCTV surveillance, lighting commands can be controlled centrally eg, the groups can be switched consecutively when trucks are approaching the pullout, giving a clear visual signal to the drivers where to line up. Additionally, Telea only switches the lanterns to full power (150W) under extreme weather conditions.

The project was achieved in association with ASFiNAG.
The PEC programme is based on the principle that three factors influence ‘quality’ in a lighting scheme:

- **Performance** is the achievement of visual effectiveness, meeting requirements and targets
- **Efficiency** is conserving energy and effort, reducing CO₂ emissions and waste, producing a system that is practical and efficient to install, operate and maintain
- **Comfort** is a more subconscious factor relating to the ability to give people satisfaction and stimulation

Creating an iconic identity for Moroccan development

Over 700 special ‘Tamuda’ lanterns have been supplied for lighting the shoreline roads of Tamuda Bay, the new name of the coastal region between M’diq and Fnideq in northern Morocco. The area, renowned for its natural beauty and soft climate, is reinventing itself as an international tourist destination, including the creation of appropriate roadway infrastructure.

The lantern’s optics were designed around the high performance ‘Optibloc®’ lamp compartment. This sealed unit is engineered for improved visibility and reduced glare. An adjustable swivel bracket allows tilting of the lantern. Energy efficient HST lamps are employed: 420 x 150W and 280 x 70W.

The highly distinctive conical lanterns and associated bracketry, all finished in blue, add character and help create an iconic identity for the development by day - and warm, friendly light by night.
The Travelling Light roadshow’s back; with a major format change to make it even bigger and better. The mobile showroom returns with a hemispherical-shaped structure replacing the previous vehicle based display.

Measuring 10 metres in diameter and 6 metres high, the space is better suited to daytime presentations and creating lighting effects. It will travel 30,000 kilometres across 15 European countries come June.

Visitors will be able to see all the latest developments from L+B 2008 and learn how performance, efficiency and comfort (PEC) will impact on tomorrow’s lighting. It has appeal for everyone, from electrical contractors to mayors.

When the ‘lighting experience’ visits your region - and it’s scheduled to visit 70 major cities - don’t miss it! The Thorn staff will give you a warm welcome and no matter how dull the weather is outside, the lights will always shine brightly inside!