



## Mobile showroom revamped for 08/09 road tour

For those lighting enthusiasts unable to attend April's Light+Building 2008 Exhibition in Frankfurt, the Travelling Light III roadshow will be the ideal opportunity to see Thorn's new products for the first time.

Furthermore, by using a 10m diameter multifunctional marquee, rather than a customised vehicle, Thorn offers customers a better experience, whatever the weather. The spacious interior is split into two sections: the centre core is a hospitality reception zone with the products placed around the circumference. Customers can check out almost everything, from

downlights and controls to 'proof' luminaires and LED urban lanterns.

The mobile exhibition will be supported by product handling sessions, and a series of presentations of PEC (Performance, Efficiency and Comfort) – the results-orientated programme that underpins Thorn's approach to delivering quality lighting.

The demo tour is scheduled to visit 70 major cities and select distributorships across 15 European countries during 2008/9. Customers may make an appointment to visit the tour via their local Thorn representative. For more information, visit:

[www.thornlighting.com/travellinglight](http://www.thornlighting.com/travellinglight)

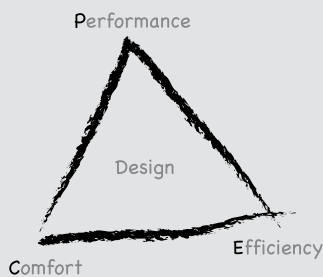


Photo: Joss Guest

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# The best of light+building



## **X-Force gets tough**

The X-Force range of specialist fluorescent 'proof' luminaires - whose powers include, super strength, endurance, and the ability to resist harm - goes into battle in the harshest of environments.

Five specific products have characteristics to match different harsh environments. HeatForce and ColdForce are designed with special control gear to operate reliably at up to 65°C or down to -30°C. StormForce has a steel reinforced canopy and gull wing fixing brackets. CorrosionForce, with its PMMA diffuser, will resist most trace chemicals in the atmosphere. ImpactForce will withstand a direct impact up to IK09.

All are IP65 rated and there is a choice of lamp types and ratings, dimmable ballasts and lighting control accessories.

## **Cruz control**

The Cruz aluminium downlight range gives class leading light outputs with great glare control. It takes four major lamp types from 13W CFL to 150W HIT in 10 body sizes. Sources can be positioned either horizontally for general light distribution or vertically for a spotlight effect. There are 17 attachments, ranging from the glass trumpet to an IP54 cover. A Gyro version is also offered for directional effects (0-60°). Bezels are white, chrome or grey.

Installation is made easy by a patented 'sec-lock' holding arm, which retains the downlight - problem-free - in place. Fixing is further aided by the availability of low height units for 100mm void depths and 'plug and play' versions.

Digital dimming, with or without DALI, is available, as are emergency options.





## Glacier keeps its cool

The Glacier pendant range has been upgraded to perform a wider variety of roles. While retaining its predecessor's reputation for design flair - note the cool-looking cone styling and clean colours - Glacier II gains more reflector options, greater lamp choices, improved optics and easier fixings. There are two sizes - for commercial and contract lighting.

The heart of any pendant is its reflector system and Glacier II comes with a choice of four - three direct/indirect light distributions and one direct, all aluminium reflector. Lamps range from 18W CFL to 150W HIT-CE.

The pendant comes with an adjustable quick-lock single wire suspension, pre-installed cable and finger release bayonet-type connections for the reflectors.



## Power and control combined

The comprehensive Titus range of T16 fluorescent luminaires for industrial and sports lighting applications now has some extra benefits for both user and installer.

Delivering an impressive 27,200 lamp lumens, the Titus 4x80W T16 amalgam lamp option offers a high quality alternative to conventional high and low bay fittings with high pressure discharge lamps. There are also standard digital dimmable control gear and emergency versions available.

Titus Industry fittings now come with heavy duty electronic ballasts designed to operate in harsh environments; for example they are designed for a life of 50,000 hours plus at high ambient temperatures and can withstand voltage peaks of up to 4kV. This long lamp life and high level of operational reliability results in longer maintenance intervals and thus lower maintenance costs.

## Take control

Everyone knows that lighting control systems are extremely energy efficient. But isn't it part of electrical industry folklore that they can be complicated, expensive and suitable only for large new projects? Such an unfortunate reputation has, at last receded, thanks to the latest interior lighting controls offer.

SensaLite is for small applications such as offices, classrooms and corridors

and has luminaires with built-in or remote sensors for presence detection, daylight linking and infra-red control. ControlLiteDIM is for single rooms and consists of modules for scene setting, daylight linking and presence detection. SensaLink builds on the features of SensaLite and can provide a linked lighting management system for larger projects and those requiring greater levels of comfort.

At a time when conservation is in everyone's mind, Thorn is offering a selection of all new Urban designs, many using LEDs

### Keeping a lid on light

Plurio is a collection of post-top lanterns for urban lighting applications. There is a choice of four lantern styles, where innovative multi-faceted reflectors combined with efficiency and limiting obtrusive light forms the design platform. In each style there are choices of reflectors, bowls and optical accessories, and in Plurio O there is the additional option

of bicoloured canopies. The lantern takes CFLs, HIT-CE or HSE lamps, from 57W to 100W. Plurio lanterns can be used, either in combination or on their own, with a specially developed range of decorative columns and brackets. All solutions give the surroundings a unique architectural appearance.



### Keeping a low profile

The Mica range of drive-over luminaires has been extended with a new, shallower version. With a depth of 175 to 195mm, the Mica Slim series is up to 60 per cent slimmer than the existing models. This brings marked improvements in the ease of installation - its also supplied pre-wired - and greatly extends usage.

Two types are available; one for accent lighting, fitted with a tiltable or asymmetric optic, the other for guidance using

domed windows or frosted front glasses to screen the light source.

The die cast aluminium luminaire takes five lamp types, including LEDs (monochromatic or RGB colour changing) and employs electronic gear. The range comes in three sizes from 113 to 235mm Ø; is sealed to IP67 and is cool to the touch (<80°C).



## Solar driven lighting for urban areas

A prototype solar-powered LED luminaire has been developed as a lighting concept for precincts, walkways and civic plazas. The 3.4m high, blue-grey rectangular Monolit is straight out of the future.

“What the Monolit does”, explains outdoor product marketing director, Joachim Leibig, “is use stored energy gathered using photovoltaic panels to drive 40 LEDs without compromising the design and performance of the lighting”. Solar PV panels are ideally suited to the urban environment as they use sunlight to create clean, reliable, electricity at the point of demand to run equipment, such as luminaires.

Identical on both sides it has two photovoltaic panels flanked top and bottom by a modified LED Band luminaire (a 600mm strip of 10 x 1W LEDs) for overall lighting and pavement illumination respectively.

“The key appeal lies in zero-carbon emissions, no electricity bills or cabling, low maintenance, long life and no noise”, adds Leibig.

Photo: Joss Guest

# Here's good news for air travellers

All airports rely on light. It is used to accentuate the architectural features of terminal buildings, provide relaxing, sustainable environments for passengers and staff and enables efficient

management of baggage and cargo handling activities.

Thorn has a long history of involvement in many of the world's major airport projects,

but nowhere is the company's ability to provide a total lighting solution more clearly demonstrated than Heathrow's Terminal 5 and Beijing's Terminal 3 buildings.



© www.baa.com/photolibrary

## Taking off at T5...



Thorn has lit the Heathrow T5 building with more than 75,000 luminaires, many specially made. The company worked in close co-operation with BAA, its lighting designers, Spiers and Major, and four of the principle contractors: AMEC, Crown House, Balfour Beatty Rail Projects and Balfour Kilpatrick.

The T5 buildings employ triple-headed roof lighting modules with a 35W HIT-CE spotlight to highlight the girders, a 250W HIT-CE spotlight for the passenger area, and a single 42W CFL housing for emergency lighting. The baggage hall is lit by low energy suspended cylindrical downlights, mounted within a ceiling of large white disks. Specific saucers integrate Menlo Circular luminaires (55W T5-C lamp). Most of the luminaires have controllable DALI ballasts.

Blue fluorescent tubes set in modified Titus luminaires provide accent lighting for the underground station platform areas and the multi-storey car park is looked after by 4,000 'proof' fittings.

Photo: Edmund Sumner/VIEW



# Enter the dragon

Beijing T3 is the new gateway to China and the terminal's designer, Lord Foster, has produced an airy structure employing distinct Chinese colours and characteristics.

It's rising aerodynamic roof reflects the feeling of

aviation as well as being representative of a dragon, complete with rooflights that resemble scales.

The lighting creates an ambience that combines grandeur with intimacy. It also enhances the colours - at

the entrance passengers encounter a blaze of crimson, reminiscent of good luck and happiness, while inside gold is used for its association with the earth and calmness.

Scheme associates include Dutch airport planners

NACO, engineers Arup and the Beijing Institute of Architectural Design and Research.

© Photos: Nigel Young/  
Foster + Partners

# Lessons for the future

Pupils at Minster School in Southwell say their new building is 'amazing' - a perception that is due in part to imaginative use of illumination.

Thorn, through its relationships with architects Penoyre & Prasad, consultants Buro Happold and electrical contractors, J.M. Morris, has played a major part in lighting

the college, which specialises in music and humanities and shares its facilities with the local community.

The outstanding feature of Minster School is the central covered 'street'. Light is by triple clusters of surface downlights and rows of dimmable Arrowslim fluorescents with asymmetric reflectors set above the

perimeter walls. The lighting is subdued with no glare and supplements the glazing.

The result is an extremely pleasant environment in which to study and play. The lighting is controlled by a SensaLink system.

Photo: Richard Seymour



## Hospital clean

The first major installation of Invincible II luminaires has been completed in Denmark. The clean room luminaire was chosen by the Aarhus University Hospital in Skejby to light its new 5,000m<sup>2</sup> medico-legal department. The operations carried out here - from autopsies and identification viewings to lab work and examinations - are visually demanding and require strict hygiene. Invincible II is made from sterile materials and its double parabolic reflector ensures optimal working light that is glare-free and does not create distracting reflections.

The University Hospital includes the nearby Amt facility, which is also using Invincible II luminaires - to refurbish an ambulatory surgical clinic. Opalescent luminaires in the operating rooms have been replaced realising energy savings of up to 50 per cent.

Architect for the hospital was C. F. Møller.

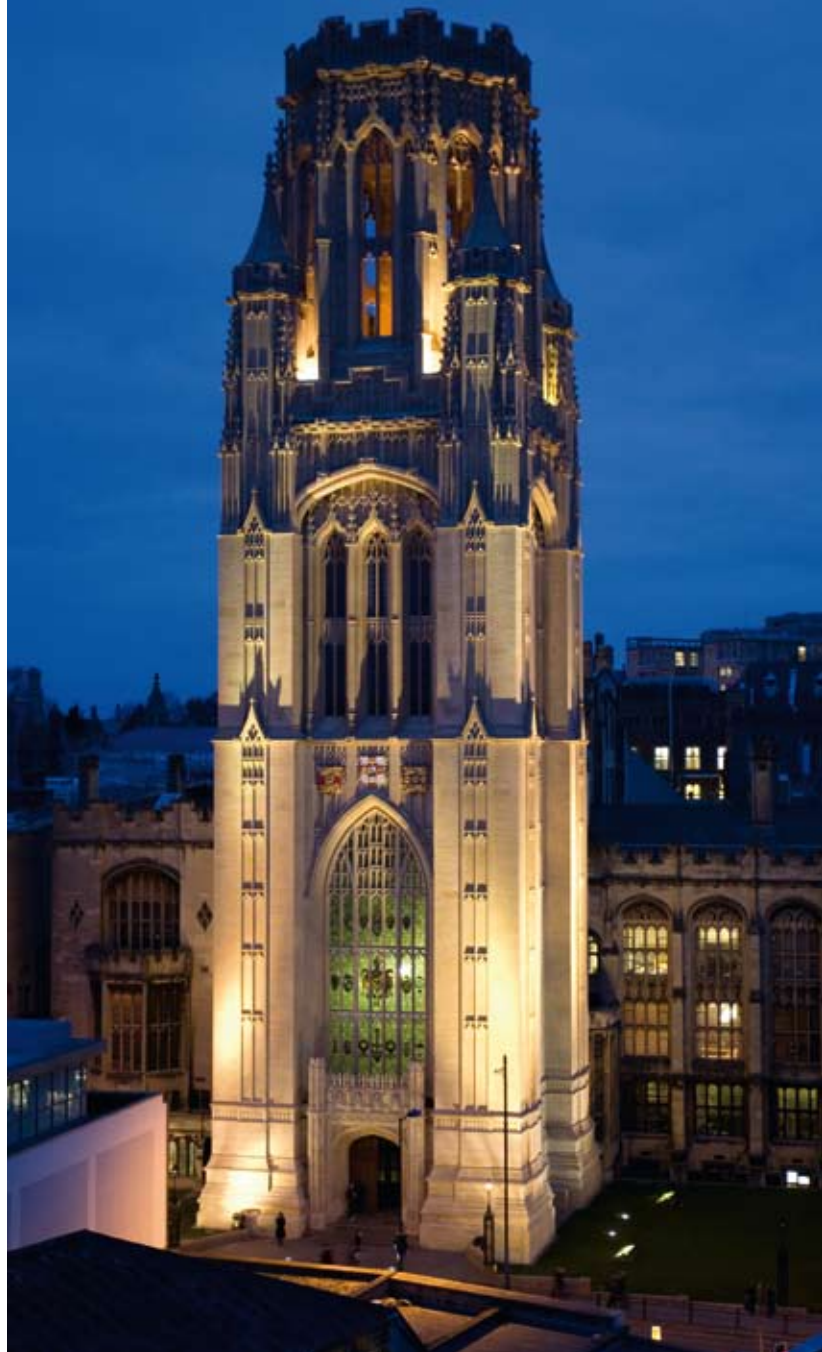




# Streetwise

The picturesque Austrian village of Klein-Neusiedel, south of Vienna, has just provided a classic example of how to combine lanterns and columns to achieve a fully integrated design. The streetscape face-lift comprises of Dyana lanterns mounted on Zoria columns and brackets. By day they complement and add to the style and ambience of the area. By

night, the 'white' light adds safety, security and visibility. The scheme is tailored with the needs of the residents in mind. For increased security the pedestrian crossing has been illuminated with higher power 250W units.



# Bristol fashion

The 68-metre-high gothic style Wills Memorial Tower is the centrepiece of the University of Bristol, but until recently simply faded into darkness at night. But a £750,000 restoration project included new floodlighting.

'White' metal halide lamps now enhance the Bath and Clipsham stone. Eight 150W Contrast C floodlights cast a glancing light across the face of the tower, the lower part of which is lit by four 70W buried Mica B floods. Thirty narrow beam 150W Sunspots highlight the upper levels at a

shallow angle to emphasise detail and shadow, while 70W high pressure sodium Areafloods in the octagonal belfry create a contrasting golden glow.

The floodlights are energy-efficient (total load is under 6kW), employ attachments to tailor the beam distributions and are switched on at dusk and off at midnight.

Electrical work was by AMP Electrical Ltd of Bristol.

Photo: Joss Guest

## 'White' nights

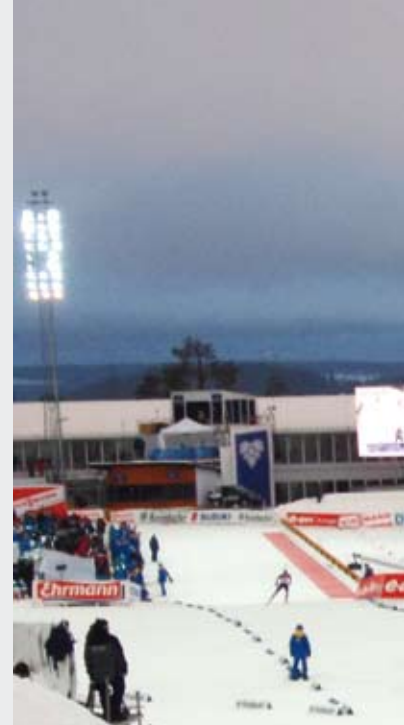
Östersund, Sweden's world-renowned winter sports capital, chose Thorn to floodlight its new facilities for the 2008 IBU Biathlon World Championships. The events were televised by Sveriges TV, which necessitated higher than average lighting levels.

The extended lighting scheme comprises 348 Mundial

floodlights with 'white' 2kW metal halide HQI-TS lamps. The floods are mounted on existing columns (12-40m), along the cross-country ski stadium and secondary areas – illuminating an area large enough for over three soccer pitches. Most are asymmetric for better beam control (and hence less stray light), with some narrow

beam symmetrical types for long throw work. They have to withstand rigorous sub-zero temperatures along the shore of Lake Storsjön.

The lighting contractor was Johnssons El of Åre.



## Champion on track

When Mount St Mary's College chose Champion floodlights for their Grade 1 Athletics Stadium, they made a choice that helped them gain selection as an official London 2012 Pre-Games Training Camp Facility.

The centre, near Sheffield, with its impressive 6-lane athletics track, rugby pitch

and field events area, has a number of uses, from a daily school programme for 11-18 year olds to the hosting of national teams and training camps. The lighting needed switching to meet the different sports and competition levels being played as well as achieving strict light control.

Electrical contractors, R.J. Thompson International Ltd of Worksop, were responsible for the complete installation, which comprises of 36 Champion 2kW floodlights, mounted on eight Stainton hinged raise and lower columns, at a height of 20m.

Photo: Danny Maddocks



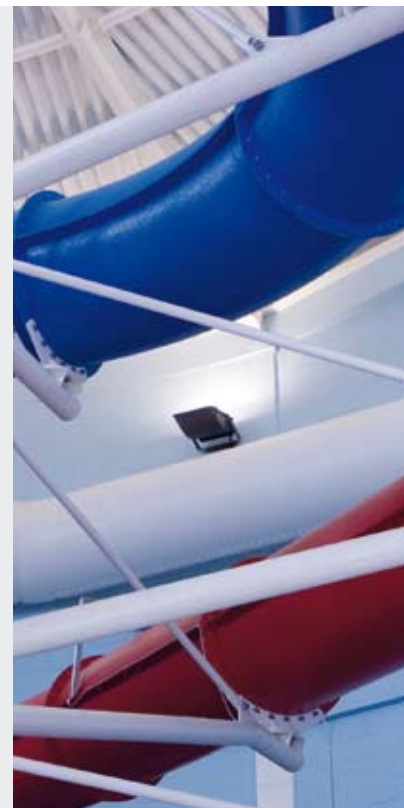
## Titus makes a splash

The £12.75m DG One Leisure Complex, Dumfries opened in May 2008 offering unrivalled leisure facilities including a multi-purpose sports hall and 25m 8-lane swimming pool. Built by Kier Northern, with electrical contracting by Haden Young of Glasgow, Thorn was commissioned early on to help design the lighting.

To overcome the variable ceiling height in the pool area two rows of 14 'Troika' flat glass floodlights were fixed using special brackets to structural steel purlins across the pool, with a further two on each of the end walls. These 400W HIT uplights provide a glare free 350 lux with good colour rendition and being aluminium, sealed to IP65, withstand humidity and corrosion. Twelve

Troikas light the flume area. The Sports Hall has been lit with 36 fluorescent T16 Titus Sports luminaires, with 'switching' levels up to 500 lux.

Photos: Joss Guest



# Kangaroos play at night



Nicknamed the Kangaroos or 'Klokani' following a celebrated 1927 tour of Australia, where they were presented with two live kangaroos, the Bohemian 1905 football club - one of the most popular teams in the Czech Republic - has been given the high technology lighting treatment. With the ageing Ďolíček stadium in Prague failing to meet the Czech football association's standards that require first division teams to have all-seater stadiums with floodlighting, drastic action was required. To meet such requirements, the Bohemians choose 112 Mundial 2kW floodlights delivering 1,200 lux installed on the main stand roof and two new 31m masts.



And, what happened to those two kangaroos? After the tour, they were donated to the local Prague zoo. The only kangaroo left is the club mascot!





# Thinking outside the box



Photo: Joss Guest

That's exactly what Thorn has been doing with its LumExpress brand. As a result of thinking outside the box it has created a box - to display the latest product introductions.

The LightBox is a robust, versatile display presentation created for installers. Approximately 2 metres square it contains 10 drawers, each with a luminaire or demonstration.

Advantages of LightBox include:

- Ability to see products and quick-fix solutions 'hands-on'. Many light up when pulled out.
- Opportunity to see a broad range of products like linear fluorescents, bulkheads, floodlights, emergency lights, downlights and much more...
- One draw with laptop shows quick lighting design software
- Fast, easy setup - straight from the truck to the wholesaler trade counter
- Continually changing presentation

Now that's thinking outside the box...

## Diffuse those costs

Strictly for the limited budget, Diffundi is a good-looking, surface fluorescent luminaire. The latest LumExpress product is T26 based, being available for twin 18W, 36W or 58W lamps, including high frequency operation.

Diffundi's secret is in its very shallow, totally enclosed construction. Less light is trapped inside the fitting and more is directed where it is needed. A curved aesthetic gives an added appearance. Fixing for the contractor is straightforward, either direct to ceiling or via BESA box.



*Insight is published by: Global Marketing Communications, Thorn Lighting, Silver Screens, Elstree Way, Borehamwood, Hertfordshire, WD6 1FE*

*Editor: Hugh King, Design & Production: Thorn Lighting Global Marketing Communications*

*Thorn Lighting has offices in Australia, Austria, China, Czech Republic, Denmark, France, Hong Kong, Ireland, Italy, New Zealand, Norway, Poland, Russia, Singapore, Sweden, UAE and UK*

**Publication date: August 2008**