

# Insight

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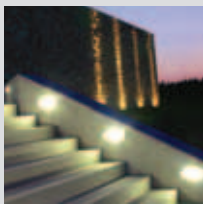
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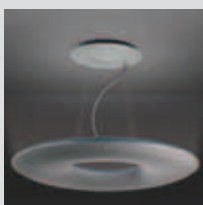
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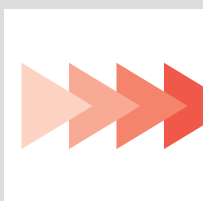
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## Light at the end of the tunnel

As our road networks become more crowded the use of tunnels and underpasses is expanding, both to improve traffic flow, and to protect local environments from increased traffic exposure

Tunnel lighting plays an important role in the comfort and safety of users while at the same time helping the through-flow of traffic with the minimum of maintenance.

Within tunnels where maintenance access can be limited and where corrosive atmospheric conditions are common, reliable performance of the lighting system is critical. The main aim of tunnel lighting is to allow traffic to enter, pass through and exit the enclosed section safely and to do so without impeding the through-flow of traffic.

This is achieved through the adequate illumination of the tunnel interior, which allows drivers to quickly adjust to the

light, identify possible obstacles and negotiate their passage without reducing speed. These requirements need considering in daylight when the contrast between outside and inside is significant and at night when the effect is reversed.

Thorn has developed dedicated lighting systems and services to assist planners from concept to implementation and can offer a range of high quality technical luminaires and control systems. Our expertise and experience is demonstrated through a vast number of worldwide projects in which we have supplied advice, lighting schemes and luminaires. Examples of these include the Laerdal Tunnel in Norway, Medway Tunnel in the UK, Gometz la Ville in France,

Taxiarchis Tunnel in Greece and the 2nd Freeway Part II, Taiwan.

To address the growing demand, Thorn Lighting now offer a comprehensive guide, sharing many years of knowledge and experience and providing complete lighting solutions to address the main aims of good Tunnel Lighting.



# Thorn provide the right diagnosis at Dudley hospital

All too often lighting is installed within a hospital with little consideration for its objective

The essence is only to light the space, but the real objective should be to light for people and their needs. This recent project for Russells Hall Hospital, UK, part of the Dudley Group of Hospitals NHS Trust, helps illustrate a number of important aspects of best practice.

The project also serves as a fine example of our ability to secure valuable PFI (Private Finance Initiative) funded contracts. We are well versed in such modern procurement practices and working in a collaborative supply chain. Our work at Dudley commenced in March 2001 and covered all aspects: from detailed designs, costings and technical submissions through special products and mock-ups to complex on

site delivery schedules and project management. Nowhere is the need for even, high quality illumination more apparent than in the operating theatre. General lighting is provided from fully recessed, sealed, Invincible louvred fluorescents, which can be easily cleaned and typically use 2 x 36W compact fluorescent lamps employing digital dimmable ballasts, controlled by a simple SwitchDim circuit.

Main circulation routes are lit indirectly to lessen glare by concealed Arrowslim Connect battens.

Architect on this project was: Capita Percy Thomas and the lead contractor: Sir Robert McAlpine.



## QBA goes to Poland

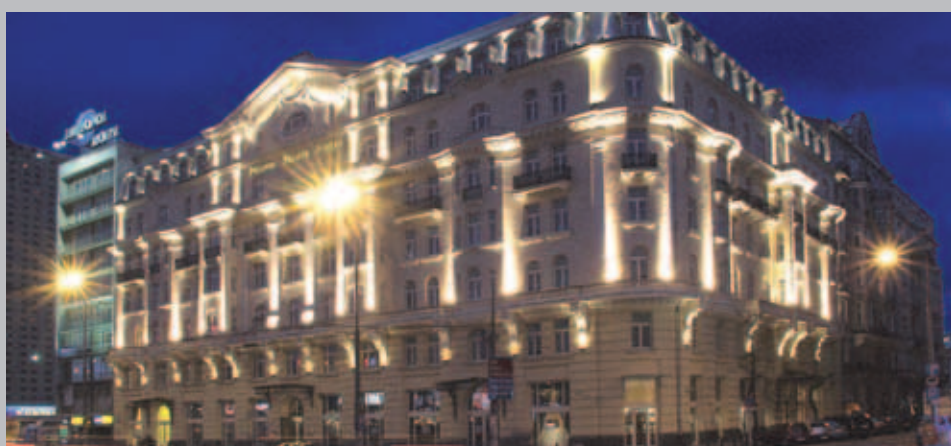
Hotel Polonia is one of the oldest and well known hotels in Warsaw

Built in the 19th century it has become well known for its unique architectural details and atmosphere. Located in the town centre it has become a representative landmark for the Polish capital.

However over the years the building started to age and the town's iconic building was in need of repair. Recently the new owner initiated a renovation - including the lighting. Thorn won the contract to supply luminaires and lighting design for the project. Thorn Poland

worked with the municipality director Dr. Jacek Laskowski to develop an approved design scheme. Products used for the exterior of this project include QBA floodlights (used for the first time in Poland), Triumph street lanterns and Contrast projectors. Following from the supply of the exterior lighting, we then went on to supply lighting for the lobby, corridors and technical areas.

The contractor on this project was: Elin EBG and the lighting design was carried out by Thorn Poland.



## Fine wine - fine lighting

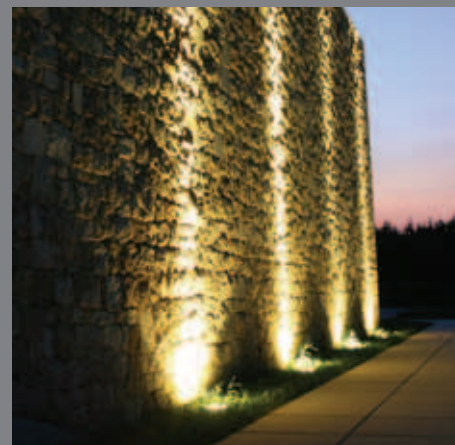
A magnificent lighting design solution to complement the modern architecture of this prestigious wine cellar and showroom

A group of wine growers in Horitschon (a wine making village located in the county of Burgenland in the East of Austria) have built a new storage facility for their prestige product Arachon, a highly successful brand of red wine.

The new Arachon Wine Cellar is surrounded by the vineyards of Horitschon. The Austrian architects created a plain, yet remarkable building, which represents a symbiosis of the materials typical for this region and expressive architecture. The project integrates itself perfectly into the landscape due to its sandstone façade and a natural stone wall (80m long 18m high), which also forms the front of the building.

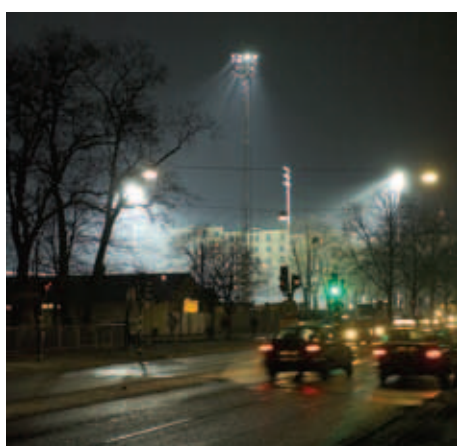
The impressive cellar is mainly designed for storage of more than 900 wine casks, but will also be used for marketing purposes like seminars and wine presentations. Thorn Lighting was responsible for the lighting design and also supplied the following products: Mica, E/Fact and Jalon for the exterior lighting.

Architects on this project were: Prof. Wilhelm Holzbauer and Mag. Dieter Irresberger. The Lighting design was carried out by Thorn Austria.



## Lighting the way to success!

Bandy is a winter sport, which is very similar to the well known sport ice hockey



The game is played with a red ball instead of the black hockey puck and is always played in an outdoor arena, which is a bit bigger than an ice hockey rink.

Only six countries play at the top level - Group A, this includes Sweden, Finland, Russia, USA, Kazakhstan and Norway. In the 2005 World Championships Sweden beat Russia 5-2 in the final.

One of the best supported teams in Sweden is Hammarby in Stockholm. Their court "Zinkensdamm" is situated in the centre of Stockholm and is always packed with supporters. The season begins in November and ends in the middle of March when the cup final is held. Hammarby made it to the final



group but were beaten in the semi-final. However the games have gone very well and have been aided by a new lighting installation which was in place in time for beginning of the season. The lighting design was completed by Thorn Lighting - Anders Kristensson, one of our specialists in outdoor lighting and he also completed a similar installation for another popular bandy team, "Bollnäs" earlier in 2004.

For both these grounds 2kW Mundial floodlights have been used. At Zinkensdamm 64 floodlights are mounted on four 36m high masts. Our initial recommendation was to use only two masts, mounting the other floodlights on the roof of the grandstand to minimise

the risk for glare as the ground is surrounded by residential buildings. However the final decision was made to use four masts and to control glare by equipping the floodlights with glare shields. The illuminance is well above target, 800 (750) lux horizontal and 450 (385) lux vertical.



# Jet

Soaring to new heights in street lighting design



Thorn's new Jet fitting has been designed for contractors and installers who are dissatisfied with over complicated, poor quality street lighting fittings. Jet aims to address the weaknesses in so many other fittings by providing an aesthetic, vandal resistant, easy to use IP65 compact street lighting fitting suitable for use in a wide variety of road applications - all at a low, low cost.

A wide range of lamp options from 50-80W make this fitting suitable for many applications ranging from car parks to minor roads and building surrounds. Post top mounting accessory enables tilting options.

This new compact, strong and sturdy fitting is delivered complete with integral gear - ready to install and all supplied in a single carton.



# LumExpress

A new way of thinking about lighting from Thorn

Summer sees the launch of the new LumExpress range from Thorn. LumExpress combines all the best you expect from Thorn - excellent quality, easy to install products with competitive prices and closer partnerships with your local distributor.

What is so different about LumExpress? Well, apart from the support and backup of Europe's leading lighting company no one else offers such a complete range of products to the electrical contractor. The LumExpress range

has been carefully selected to meet all the lighting needs of the professional installer. It includes everything you should expect a professional lighting partner to support you with - recessed and surface lighting, waterproof and industrial lighting, emergency lighting, downlighting, outdoor lighting and even a whole range of T5 products for all commercial and industrial applications.

LumExpress - a product range for every lighting project!



# Concavia

High bay perfection

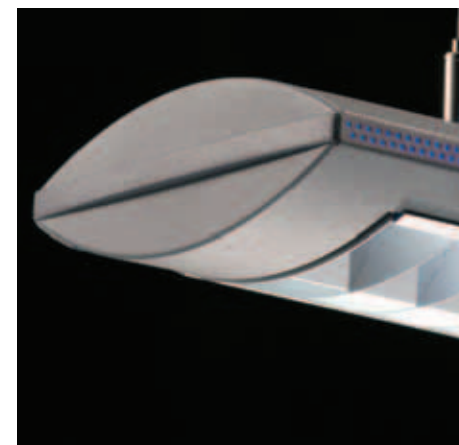
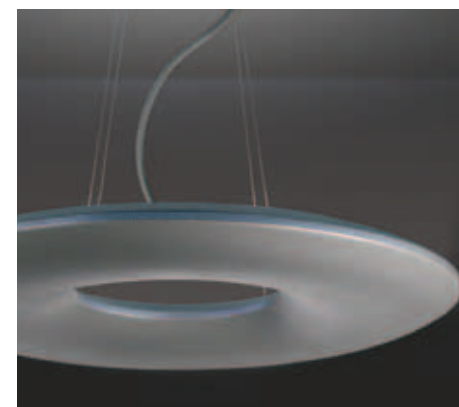


Thorn's latest innovative solution to high bay applications, the Concavia range is suitable for everything from retail and commercial premises to specialist heavy industrial buildings. It combines the unique aesthetics required for shops, malls and showrooms with the robust construction necessary for production areas and warehouses. This high performance range consists of three different sized luminaires, Concavia S, Concavia L and Concavia XL. Concavia L was shown at Elec 2004 in Paris and the complete range will be available summer 2005.

# Line XS

The completed family

Today lighting designers need to address many issues when designing modern offices. They need to provide good task illumination, uniformity, colour rendering and avoidance of glare in their schemes. In addition to visual comfort there are other important factors such as 'visual lightness and interest', cost, energy efficiency and architectural integration. These factors have been addressed in the design of Thorn's Line XS, which is now a complete family range. The addition of a circular fitting and wall upright to the already successful suspended and wall mounted versions provides a complete lighting solution for the office in one design line.



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