

Thorn illuminates world's longest sea bridge

Champion LED Pro and GTLED luminaires from Thorn have been chosen to light the brand-new Hong Kong-Zhuhai-Macao Bridge – the world's longest bridge across the sea.

London, October 2018 – Thorn is proud to announce that it has provided much of the lighting for the brand-new Hong Kong-Zhuhai-Macao Bridge – the world's longest sea bridge – which is due to open soon.

Thorn secured two of the three lighting contracts associated with the 115.9 billion yuan (€14.7 billion) project. Thorn's products illuminate the two artificial islands at the east and west of the crossing, and the tunnel that leads to the bridge from Hong Kong.

The bridge is now nearing completion and set to start carrying traffic soon, after nine years of construction work. It spans China's Pearl River Delta, connecting the islands of Hong Kong and Macau with the city of Zhuhai on the mainland. It is a highly demanding construction environment, with frequent typhoons, airport height restrictions, high environmental standards and shipping to contend with.

Thorn was one of just three suppliers in the final round of bidding to light the artificial islands, and eventually won thanks to its ability to meet the extremely high construction standards and rigorous technical criteria. Thorn provided 120 Champion Pro LED 132 high-power floodlights, mounted on 12 high masts.

Thorn's Champion Pro LED fittings were chosen for their high efficacy of 115lm/W, long lifetime of 70,000 hours (L80), IP66 rating for ingress protection, and success in passing a 1000-hour salt-spray test, showing their ability to withstand the tough environment. The fittings use 600W of power, compared to 1000W for conventional alternatives.

Meanwhile the Hong Kong team secured the tunnel lighting contract using 6000 of Thorn's GTLED Entry and GT58 luminaires with DALI drivers to light a one-kilometre tunnel. These dedicated tunnel luminaires provide excellent lighting performance with high uniformity and long life.

Mr. Guo Wei , equipment manager of CCCC First Harbor Engineering Co., Ltd.said: "It was vital that we find the right partner to work with us on this large-scale and prestigious project. We had stringent technical demands

and a challenging environment to deal with, and we needed a supplier who could support us and work closely with us. Zumtobel Group and Thorn have done a great job.”

Mr. Keith Ha, Product Manager of China State Mechanical & Electrical Engineering Limited said: “We were delighted to work with Zumtobel Group and Thorn on the lighting for this major tunnel. They have fulfilled a challenging lighting brief and provided us with great products and great service. The results speak for themselves.”

“We previously completed a successful renovation project in Hong Kong’s Shing Mun Tunnels with the main contractor, and have thus gained high recognition for our professional lighting solutions and competence. The luminance calculation of our tunnel lighting solution complies perfectly with the tender specification, which stood out from the competitors despite the complicated and strict requirements in the electrical and mechanical installations,” said Simon Chan, General Manager, Zumtobel Group Hong Kong/Macau/Taiwan. “Our credentials and commitment to meet the project’s specification needs were the main reasons we won the project.”

With three lanes in each direction, the 30km bridge – part of a crossing totalling 42 kilometres – will dramatically reduce driving time from Hong Kong to Zhuhai and Macau from about 4½ hours to just 40 minutes.

The project is part of the Chinese government’s plan to develop the Guangdong-Hong Kong-Macau Greater Bay Area, which together forms Asia’s fifth largest economy.

Images:



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6000 of Thorn's GTLED Entry and GT58 luminaires with DALI drivers illuminate the one-kilometre tunnel.



Thorn's tunnel luminaires provide excellent lighting performance with high uniformity and long life.

Information

This press release and high-resolution images can be downloaded from:
<http://www.thornlighting.com/en/about-us/press>

About Thorn

Thorn manufactures and supplies dependable, efficient, high-quality lighting. Its extensive portfolio of indoor and outdoor lighting is developed to address the needs of wholesalers, contractors, specifiers and end users, for the widest range of applications. Thorn's name is recognised throughout the world as standing for quality, reliability and ease of use. Supported by 90 years of expertise, Thorn is proud to be known as a trusted partner, providing customers with invaluable insight and support beyond the product. Thorn is also a Smart City specialist, helping municipalities improve safety and wellbeing through connectivity and intelligence. In indoor lighting, our innovative solutions create comfortable, efficient light for living and working. Thorn is proud to be a member of the Zumtobel Group. Find out more at www.thornlighting.com

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