



Project Schougen's bridge

Location
Philips Lighting

Malmö
FreeStreet

PHILIPS



"Philips was the only contractor who supplied this type of lighting solution. We received excellent support. Philips came here to help with the mounting."

Johnny Clausen, manager for public lighting in Malmö city



Malmö city break ground with the new lighting concept FreeStreet



Facts

Client

Malmö city, department of streets and roads

Location

Schougen's bridge, Malmö

Lighting solution

FreeStreet de-cluttered LED lighting solution

Project realization:

2013

Background

Schougen's bridge used to be called the Östra Förstadsbridge and leads traffic from the street Östra Förstadsgratan to the square Drottningtorget. Since the 1970s the bridge has been illuminated by four 125W mercury luminaires with a total installed power of 548W. Not only is mercury lighting an outdated, inefficient technology, but the bridge was also poorly lit and the light was spilling onto other places than the roadway itself. Malmö city was looking to improve traffic safety and increase safety for people passing over Schougen's bridge by using energy efficient lighting adhering to relevant norms and with a substantial life cycle. "Every four years we invite manufacturers and artists to an event called "By Light". We invited Philips since we were interested in the LED luminaire FreeStreet after seeing it at the Light+Building fair. It's a new, exciting lighting concept we were keen on trying - we wanted something different," says Johnny Clausen, manager for public lighting in Malmö city.

Challenge

Malmö city was looking for a subtle installation for the 34 meters long and 18 meters wide bridge. Key criteria were even distribution with white light and good color rendering. Possibilities for future changes in the installation were limited. "The great challenge lay in how to mount the luminaires. We wanted the lighting to be perceived as a starry sky or a ceiling of light floating above the bridge", says Johnny Clausen.

Lighting solution

The total installed power is 345.6W. FreeStreet is a minimalistic luminaire which sits integrated in a dedicated wire used for both mounting and mains voltage. It's an aesthetic and discreet lighting solution designed to blend into the environment, even during the day. "During mounting we used four existing luminaire poles placed right off the bridge. The new FreeStreet luminaires are mounted on a wire which has been fastened between the four poles. It was crucial to position the luminaires in alignment with the bridge.

Advantages

By replacing the mercury lighting on Schougen's bridge with energy efficient LED lighting, the total installed power was reduced by 202.4W. This amounts to 810 kWh/year in energy savings for the city of Malmö. FreeStreet has an expected lifecycle of 12.5 years. "Now there is light where there is supposed to be light. This is a major advantage if we ever want to increase the lighting level, as we can simply add more LED luminaires to the existing wire", says Johnny Clausen.



All rights reserved. Reproduction, in part or complete, is prohibited without the prior written consent of the copyright holder. The data in this document does not constitute part of a tender or a contract, it is assumed to be correct and reliable but can be subject to change without prior notification. The publisher does not assume any responsibility for any consequences of its use. Publishing this data does not mean approval of a license of patent - or any other industrial or immaterial rights.
2013