



Case study

University Medical Centre

Location
Philips Lighting

Groningen, the Netherlands
LuxSpace Compact, Mini and Micro, Smartform TBS415,
ToBeTouched, OccuPlus, OccuSwitch



PHILIPS



“The lighting solutions in the two neurosurgery departments, within the scope of Hospilot, have increased the comfort and reduced energy consumption. An enhanced visual experience that our employees confirm is a great improvement.”

Henk Timmerman, Director of Building and Infrastructure UMCG



Personnel and patients benefit from the Philips low energy and smart lighting solutions



Project info

Customer

University Medical Centre, Groningen

Location

Groningen, The Netherlands

Installation & Consultancy

Unica

Project leaders

Peter van Dijken and André Hundt (UMCG)

Arend Riemersma (Unica)

Philips products

LuxSpace Compact, Mini and Micro, Smartform TBS415,

ToBeTouched, OccuPlus, OccuSwitch

Philips lighting designer

Sjef van Eggelen

Background

'Groningen – city of talent'. This key advertising slogan relates, amongst other things, to the local University Medical Centre (UMCG), strategically situated in the heart of the city. On a 350,000m² site, it is one of the largest hospitals in the Netherlands. A large hospital with a large number of staff means high energy consumption. "We are almost self-sufficient for heating," says Henk Timmerman, Director of Buildings and Infrastructure at the UMCG. "But we are always on the look-out for potential improvements." It should hardly come as a surprise then that Philips asked to collaborate on the Hospilot project.

The challenge

The Hospilot project involves the implementation of energy-saving measures, including the use of 'smart' ICT technology, in three European hospitals. Energy consumption for heating, ventilation, air conditioning and lighting was compared with the 'old situation' for an entire year. "The principal benefit has been the improvement of staff and patient comfort without an increase in energy costs," explains Timmerman. "Light proved to be an ideal way to achieve this result. Within the scope of the Hospilot, the complete 'conversion' of two neurosurgery departments took into account the specific requirements of the staff and patients."

The solution

The available space dictated which luminaires and switches could be used in the two neurosurgery departments. The wards were fitted with LuxSpace Compact LED downlights. LuxSpace Mini LED downlights, controlled by an OccuPlus sensor, were selected for the day rooms and family rooms. Visitors and patients can select and adjust the brightness and the ambience themselves using the ToBeTouched wall-mounted control wheel. A motion sensor activates the LuxSpace Micro LED downlights which light the toilets, and the offices have energy-saving Smartform TL5 recessed luminaires installed. Finally, clever use was made of the existing switches in the corridors. "We used to switch off three quarters of the lights at night, which markedly reduced vision. We now dim the asymmetric Smartform recessed luminaires with daylight sensors to 10% light level. This provides calmer illumination and saves power. Above all, the asymmetric mirror helps to prevent the possibility of dazzling when transporting patients" comments Timmerman.

Benefits

Henk Timmerman is very enthusiastic about the new look of the rooms. "It is exceptional to see what a difference light can make; it really has enhanced the visual experience. Overall, staff emphasized that their working environment was now far more pleasant, especially because they can control the level of lighting. The improved comfort for all is perfectly in line with the ambience that we want to evoke in the UMCG."



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Date of release: June 2013

Printed in the Netherlands

Document order number: UMCG NL CASE STUDY INT