



Case study

Bergmannsheil Buer Clinic

Location
Philips solution

Gelsenkirchen, Germany
DayZone, LuxSpace

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“Anyone who has ever spent time in a hospital bed will know the environment and lighting are often so impersonal due to the hygiene and technology requirements. But it’s possible to design a far more pleasant clinical environment for patients and staff, as our pilot ward very impressively shows.”

Franz Josef Feldhaus, Technical Manager



Decorative lighting facilitates a relaxing environment; enhancing patient and staff well-being



Summary

Client

Bergmannsheil Buer Clinic

Location

Gelsenkirchen, Germany

Project team

Franz Josef Feldhaus - Technical Manager, Bergmannsheil Buer

Clinic, Frank Milkowski - Project Partner Design Office,

Hartmut Kremer, Henriette Weiss - Philips Lighting

Lighting solutions

DayZone, StyliD Mini and Micro recessed spotlights, StyliD Mini

semi-recessed spotlights, LuxSpace Mini, Ilti Luce RIGA, Ilti Luce

WalkedLine, Dynalite controls

Results

- Innovative LED lighting design with modern lighting controls
- Decorative lighting creates homely atmosphere
- Uniform, glare-free illumination with color accents

Background

The Bergmannsheil Buer Clinic in Gelsenkirchen is a maximum-care hospital encompassing 10 specialist clinics with a very wide range of medical services. With around 20,000 inpatients each year, the 290-bed hospital is a well-established medical care provider in and around Gelsenkirchen.

The challenge

In 2013, the Clinic opened a new 31-bed ward. As part of a pilot project, the aim was to make the atmosphere in the ward more like a small hotel, and less like a hospital. To move away from a classic, sterile and impersonal environment in order to make patients' stays as pleasant as possible, both for them and for the staff. The lighting was to be pleasant, decorative and individually controllable, whilst meeting the highest lighting standards. At the same time, all of a hospital operation's requirements in terms of hygiene and technology had to be met. Financial requirements included high energy efficiency and for the investment payback period to be as short as possible.

The solution

The general lighting plan for the new ward is based on energy-efficient LEDs. In the rooms, an attractive wooden panel was attached to the head of each bed. This is bordered by a decorative LED band emitting

indirect light, whilst an elegant LED reading light integrated into the front makes reading very easy. Rather than conventional louvre luminaires, the innovative DayZone was used for the general lighting. This recessed LED luminaire produces pleasant, uniformed, glare-free lighting with a decorative, corona light effect in the ceiling. For the lighting in the two corridors, the team opted for the highly uniform, recessed StyliD Mini spotlights and LuxSpace Mini downlights complimented by colored cove lighting accentuating the door areas. Staff use dynamic touch display controls to regulate the light color and pre-programmed dynamic colour changes, to create ambiance.

The results

The patients, staff and managers at the clinic are delighted with the feeling of well-being generated by the lighting design. "It's impressive; the extent to which the right light can change the atmosphere for the better is amazing," says Franz Josef Feldhaus, the clinic's Technical Manager. "The financial and technical side has impressed me just as much. The modern LEDs mean we have superb lighting quality in terms of color reproduction, glare reduction and visual comfort. We're also saving a lot of energy on the ward, and the long service life means that maintenance costs are lower. So we've achieved the very best result possible in every respect."



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