



Case study

South Operating Centre

Location
Philips Lighting

Lübeck, Germany
DayZone, iColor Cove MX Powercore, Cleanroom TBS426



Operations-Zentrum Süd

PHILIPS



“Our aim is to create an environment that relaxes patients and wins their trust. Simultaneously, it should support the staff in their physiological processes and consequently also our medical care. Light plays a decisive role here.”

Andreas Janzen, Anesthesiologist, Managing Director of Lumaris GmbH – South Operating Centre



Lighting that creates a calm ambience for patients and staff



Project info

Customer

Andreas Janzen (Managing Director), Lumaris-Verwaltungs-GmbH

Location

Lübeck, Germany

Light planning

Sabine Mai, Mailight

Philips products

DayZone, iColor Cove MX Powercore, TBS426, LuxSpace, StyliD, DayWave, Rotaris, Savio, Smartform, RGB-Downlight

Philips consultants

Juliane Lokat and Holger Dürholt

Results

- Appealing ambience for patients and staff
- High cost reduction and energy efficiency
- Individual lighting control

Background

The Sana Hospital in Lübeck is one of the largest in the region. The South Specialist Medical Centre (FAZ Süd) comprises 13 medical practices. At the heart of this center is the South Operating Centre (OPZ Süd), run by Lumaris-Verwaltungs-GmbH, which houses 4 operating theatres. It holds a key position in the modern treatment plan between the practicing specialist physicians and the Sana Hospital: The Operating Centre is used by both groups for planned operations.

The challenge

The design and form of the internal rooms had to take into consideration both social factors and ergonomic work processes, thus creating a wide variety of challenges for the lighting concept. The lighting had to create a relaxing, stress-free ambience for patients and meet the high demands of a medical facility. In all areas the lighting needed to be appropriate for the situation and function, but also cost effective, in terms of procurement and operation.

The solution

Philips developed a balanced and flexible lighting concept, creating a calm ambience and supporting staff in their duties. Round Rotaris lights were used to provide quality background lighting. In the reception area, LED DayWave luminaires support the stimulating atmosphere thanks

to their special wave-like dynamic. The dynamic lighting of the iColor Cove MX Powercore contributes to the well-being of patients and staff in the waiting area, anesthetic preparation room and operating zone, thanks to its soft and slow color changes. Flat, recessed, Cleanroom TBS426 luminaires were installed in the operating theatres, to meet the exacting hygiene and sterility requirements. Additional colored cove lights and RGB down lights were used to create a more relaxed ambience. In the anesthetic recovery room, dynamic light from Savio has been used to provide 'personal light': warm white light directly after an operation, cooler light to help patients wake up. Efficient background or accent lighting is provided throughout the Operating Centre by DayZone, Rotaris, LuxSpace and StyliD luminaires; for an overall harmonious result.

Benefits

The task-specific lighting enhances the soft lines of the room design and responds to the various treatment phases experienced by patients, for example with soft, relaxing color changes in the reception and waiting areas. Lighting that more than fulfills the special requirements of day-to-day hospital life and facilitates the customization of illumination in many areas. It is an economic winner too: the high number of LED lights delivers significant energy savings with considerable reductions in CO₂ emissions and lower maintenance costs.



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