

REFERENCE REPORT

St. Marien-Hospital Köln
Kuniberts kloster 11–13, 50668 Köln-Innenstadt

St. Marien-Hospital 
Eine Einrichtung der Stiftung der Cellitinnen zur hl. Maria



GENERAL TREATMENT

A case study of a newly established geriatric ward began in October 2015 under the direction of Ralf-Joachim Schulz, MD. Biologically effective light and a special color and material combination are the core of the new spatial concept.

They form the evaluation framework to investigate a new starting point for further improving general treatment and rehabilitation. The goal is to make patients active, but also to assist with their wellbeing, safety and orientation.



"The Visual Timing Light concept is a building block in our light therapy as an overall approach to improving the milieu of our dementia ward. By stabilizing the day/night rhythm, our patients are provided with ample light and at the same time prepared for a refreshing night's sleep. In this and many other ways, we hope to use lighting to reduce the risk of delirium and to provide dementia patients with natural support."

Ralf-Joachim Schulz, MD
Chief Physician, Geriatrics

THE TASK

The lighting plan meets two important requirements: Age- or illness-related deterioration of eyesight is compensated for by age-appropriate, glare-free lighting.

Orientation and achievement of cognitive tasks are supported by optimal illumination intensity. Moreover, perception is improved, and the day/night rhythm is restored to patients afflicted with dementia.

DATA

INITIATION
October 2015

FEATURES

- 102 beds in the geriatric ward, 43 beds in geriatric rehabilitation, and 20 beds in the geriatric day clinic
- Therapy and rehabilitation area
- Exercise pool
- Therapy garden and patio
- Cafeteria

LIGHT SOLUTION

HALLWAY / DRINK STATIONS
VANERA Eco VTL 54/54
VIVAA VTL C 400, 30 cm

HALLWAY THEME WALL
VIVAA VTL C 600, 50 cm

RECREATION ROOM
VIVAA VTL C 400, 30 cm

PATIENT BATHROOM
VANERA Bath Eco 2x24

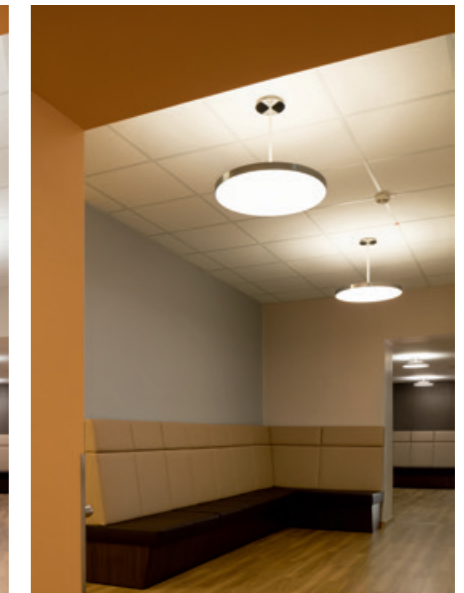
PATIENT ROOM / INNOVATION ROOM*
OBLO LED 370
AMADEA VTL 39/39
LED panel VTL 600x600*

THE LIGHTING

In the hallway and recreation areas, Vivaa VTL and Vanera VTL room lights provide biologically effective light. As early as 6 a.m., the cold tone light takes on a soft activation function that reaches its "radiant" zenith before noon.

This naturally activates the patients in the traffic areas, activity room and recreation area. Starting around noon, the illumination intensity slowly decreases, and the portion of warm tone light increases.

This gently prepares the patients for nighttime. An emergency button provides full lighting when pressed.



VISUAL TIMING LIGHT

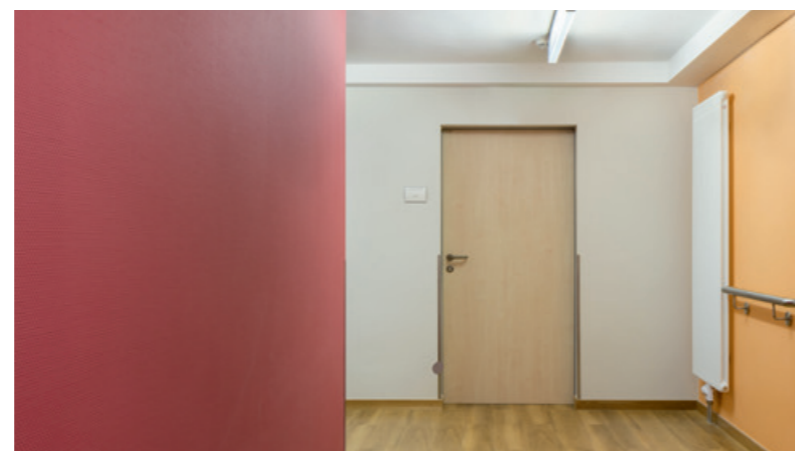
Biologically effective light is created through variable light color and illumination intensity. It supports natural activity

and rest phases. The patients are more active all day and sleep better at night.



DAILY STRUCTURE AND ACTIVITY

- High illumination intensity at table and floor level
- Therapeutic effect
- Support for cognitive tasks



ORIENTATION AND WELLBEING

- Biodynamic general lighting
- Color concept by Caparol FarbDesignStudio
- Interplay of light and color



CARE AND RECOVERY

- Biodynamic general lighting
- LED night light
- Examination light
- Reading light



PERCEPTION AND FALL PREVENTION

- Uniform, shadow-free general lighting
- Senior-appropriate illumination intensity
- Biological effect

LIGHT BRINGS HOPE IN OLD AGE

Operator

"People in good hands" - the prime corporate goal

St. Marien-Hospital
Eine Einrichtung der Stiftung der Cellitinnen zur Hl. Maria

The foundation of the Cellitins of the Blessed Mother and their institutions are distinctive for their special Christian identity and culture. To protect and strengthen this in the future, the order of sisters has codified their fundamental values. A clearly defined basis of values, "The Glorious Eight", forms the unshakeable foundation of the work. It provides each employee an orientation in their daily work.

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LIGHT FOR PEOPLE

Derungs Licht AG, of Switzerland, is a subsidiary of the Waldmann Group and specializes in lighting concepts for nursing care and medicine. It merges the strengths of both brands into a powerful collection that reflects a single mission: Light for People. Scientific evaluation, a practical network and continuous public engagement have made it possible to understand the lighting needs of seniors, and especially of those afflicted with dementia.

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