
ZERA
THE WALL MOUNTED LUMINAIRE



"DESIGN –
A HARMONIOUS RELATIONSHIP BETWEEN SHAPE AND SPACE."

Erwin Weitgasser, designer

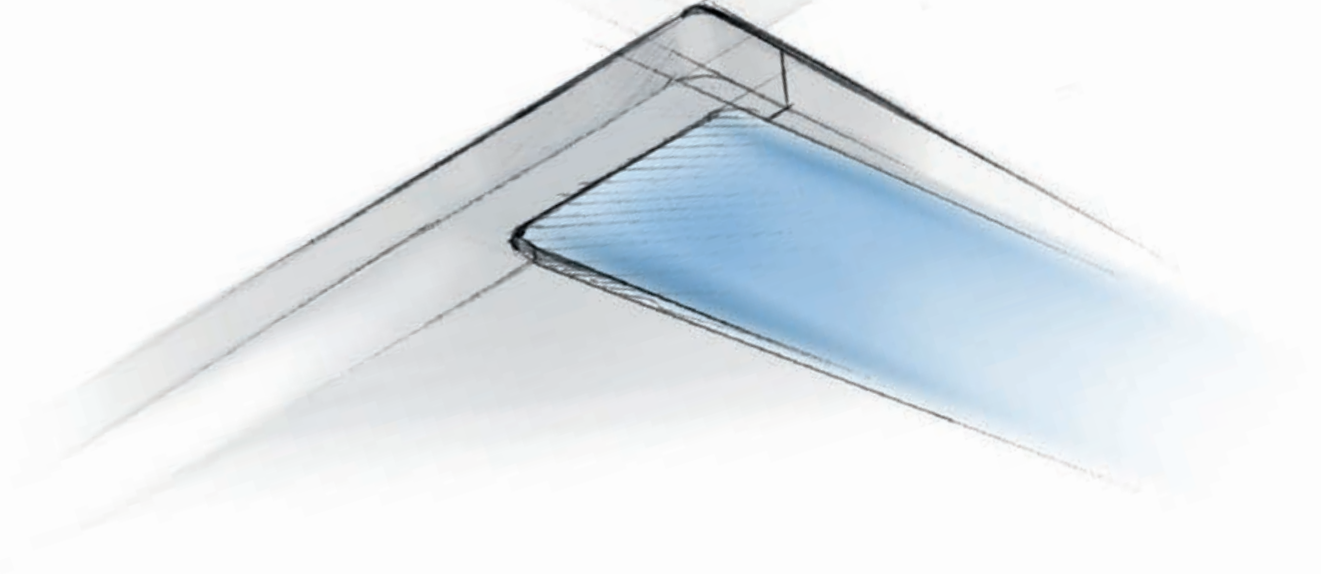








**LIGHTING ENGINEERS FROM DERUNGS
AND THE CREATIVE MINDS AT ZEUG DESIGN:
CREATORS OF THE ZERA**



**A CONVERSATION WITH PRODUCT
DESIGNER ERWIN WEITGASSER ABOUT
THE DEVELOPMENT OF THE ZERA.**

Mr Weitgasser, you and your team have already received several renowned design awards. What is the guiding principle behind your innovations? What inspires you?

Our team has always been guided by the principle that "design has soul". What we mean by this is a self-assured product identity. We are brave enough to strike out in new directions and we scrutinize the characteristics of already established products. What inspires me personally, to be frank, are the beautiful things in life: we surround ourselves daily with beautiful objects. Often these are so simple and modest and yet they still have an inimitable quality. This is the kind of identity we want to bring to life in our designs.

Zeug Design is very eclectic. You develop products in the most diverse areas ranging from consumer electronics to action sports gear to capital goods.

What is it about the topic of lighting in particular that fascinates you?

The issue of lighting is really exciting because you are not just dealing with the design of the luminaire itself; light also shapes the space around it. Light accentuates and emphasizes materials and brings colors to life. Whether it is natural or artificial, light is what lends a room atmosphere; it bids us linger a while, enticing us to relax with a book, enjoy a fine wine with friends or to focus while working.

The name Zeug Design stands for 17 years of innovative, timeless and functional product development. The small but high-caliber team of four designers has already created multiple outstanding products in the areas of consumer electronics, sports equipment, telecommunications, lighting, medicine and leisure time.



Photo left: Erwin Weitgasser, right: Detlev Magerer

How long have you been working on the theme of lighting?

We already have 27 years of lighting design experience. Derungs has been a customer right from the outset. Naturally we are delighted to have been able to work with Derungs over so many years.

In your opinion, what are the elements which contribute to outstanding lighting design in the care and medical sectors?

In the care and medical sectors the requirements for lighting and the luminaire itself are more complex than in other areas. Here it is not just about the aesthetics; you also have to consider a variety of other objectives in terms of lighting technology, ergonomics, hygiene, durability and cost efficiency. This makes it even more

important to collaborate extremely close with our clients who are completely familiar with the market.

Your collaboration with Derungs Licht AG has led to the creation of the new bedside wall mounted luminaire ZERA Bed. What was particularly important to you in developing this product?

In contrast to treatment lights, for instance, we regard the ZERA as an integral component of the interior design of the room, blending into the overall context thanks to its modest reduced form. Only when in use does the ZERA stand out thanks to its superb light. Its restrained design combined with the striking light quality are what define the character of the ZERA. Self-assured with a dash of understatement.

And what do you like best today, now that the ZERA Bed is ready to go into production? What is the idea behind the luminaire?

We like the use of really top-quality CNC milled aluminum parts and the completely flat minimalist design. At the very start of the project Derungs defined precisely what characteristics the luminaire should have from a lighting technology point of view. It should look classy and refined but still remain affordable. And, of course, it should offer something not yet available from any other product.

What obstacles were there during development and how did you overcome them?

The biggest challenge was making the casing ultra flat while still adhering to the lighting technology specifications. That wasn't easy, but through working closely with the Derungs development team it was possible to achieve our goal. Derungs wanted to develop the slimmest bedside wall mounted luminaire currently available on the market. I think we have succeeded admirably in this regard.

Derungs 



OPTIMAL LIGHT QUALITY, MINIMALIST DESIGN. THE ZERA BED HERALDS A NEW ERA IN LIGHTING.

Simple geometric shapes have a timeless beauty and harmonious appeal. That is why the ZERA Bed's design is reduced to a rectangle with an almost unreal elegance. The architects at Zeug Design in Salzburg and the lighting experts at Derungs bring together simple design, technical finesse and the highest possible light quality in the ZERA. The extremely slim silhouette and the sandblasted, anodized aluminum casing convey a sense of effortlessness and elegance. The rounded corners, small openings and first rate workmanship give the ZERA an overall impression of premium quality. This makes it a stylish interior accessory for the care and medical sectors. The ZERA lighting family currently consists of the bedside wall mounted luminaire ZERA Bed. Further models for bathrooms and hallways will follow.

Whoever sees it, will love it.

There are a number of angular wall mounted luminaires. But the symbiosis of perfect design and innovative technology is unique. The ultra slim light body is only 2 cm high for a basic width of 105 cm. And it is not just slimmer than other luminaires. The ZERA Bed is a wall mounted luminaire which opens up more creative

and simultaneously more effective design possibilities. Restrained and yet self-assured, the product can be harmoniously integrated in any room. It dominates not through its presence but thanks to its outstanding, homogeneous light and the product features which have been perfected with the user in mind.







ZERA BED. FOR AESTHETES AND TECHNOLOGY LOVERS.

In terms of the technical specifications for the ZERA Bed the designers and developers have placed a great emphasis on modularity and functionality. So the luminaire has four separate or jointly switchable light scenarios. The two basic models with various configuration packages meet individual needs. The best examination conditions are provided by the examination light, which is determined by the size of the bed, and which offers either 300 lux at the end of the bed or 1000 lux in the examination area.

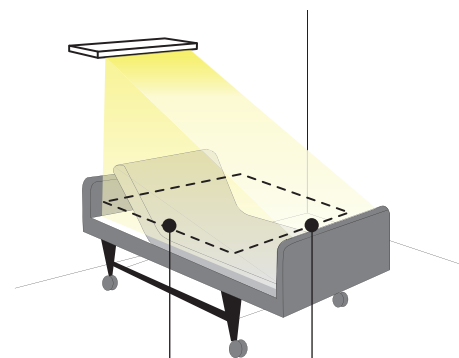
NEW LUMINAIRE FITTING.
NEW LIGHT.



Thanks to the very latest LED module and an innovative anti-glare technology completely new possibilities – for preventing glare in the bedroom – are opened up. The ZERA's special free-form optic produces a homogeneous, low-glare lighting experience. The warm lighting ensures pleasant basic illumination, while the rectangular,

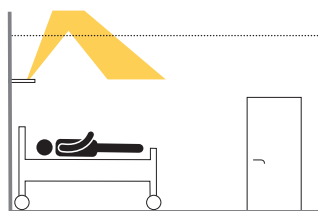
neutral white examination light provides the perfect conditions for examinations and nursing activities. The reading light is calming while simultaneously enabling optimal reading conditions. In doing this it takes into account the greater lighting requirements of older people. The night light with its warm light color ensures easy orientation around the room.

The innovative free-form optic enables a clearly defined, homogeneous examination light.



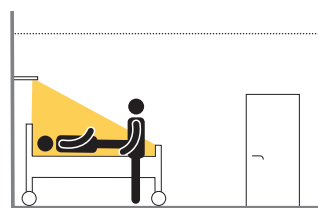
1000 lx
moderate illumination intensity
at the examination level

300 lx
at the end
of the bed



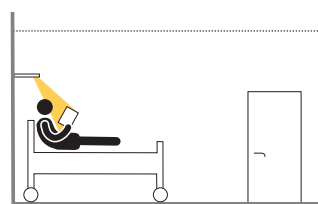
General lighting

- warm white light 3000 K
- pleasant spatial perception
- indirect
- homogeneous
- glare-free



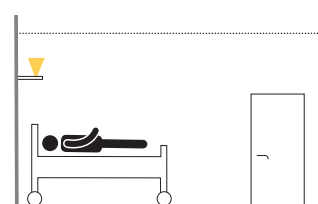
Examination light

- neutral white light 4000 K
- color rendering Ra > 90
- asymmetrical
- clearly defined
- glare-free



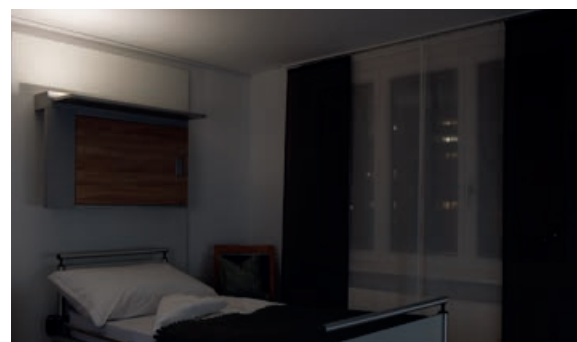
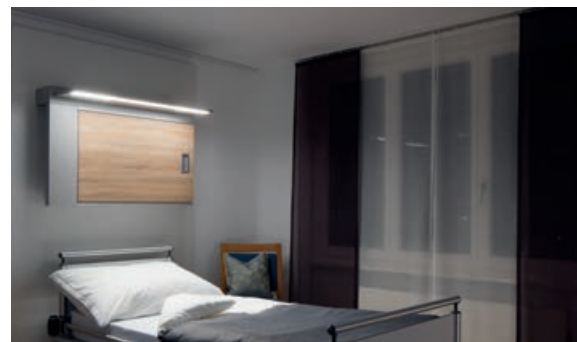
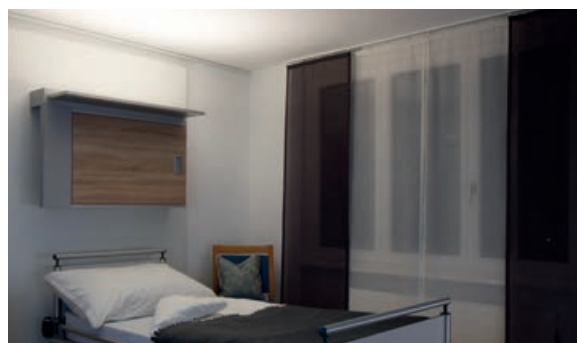
Reading light

- warm white light 2700 K
- calming
- age appropriate illumination intensity
- asymmetrical
- glare-free



Night light

- warm white light 3000 K
- calming
- indirect
- homogeneous
- glare-free



Derungs 

The idea behind the ZERA Bed is simple: only the best is good enough. First rate quality LED modules, the self-contained luminaire housing and durable components make the ZERA Bed an easy to clean, maintenance-free lighting solution. For anyone who feels safety is just as important as functionality,

there are additional advantages: the luminaire is designed and tested in accordance with IEC 60598-2-25 for medical facilities and hospital use. Even the operating costs will bring a smile to your face. With a light output of 103 lumen per watt the general lighting is a real miracle of efficiency.

The indirect night light has a calming effect.



The optional I/O rocker switch ensures additional comfort for the examination light. Potential new ideas are catered for with the configuration version including USB network gate.

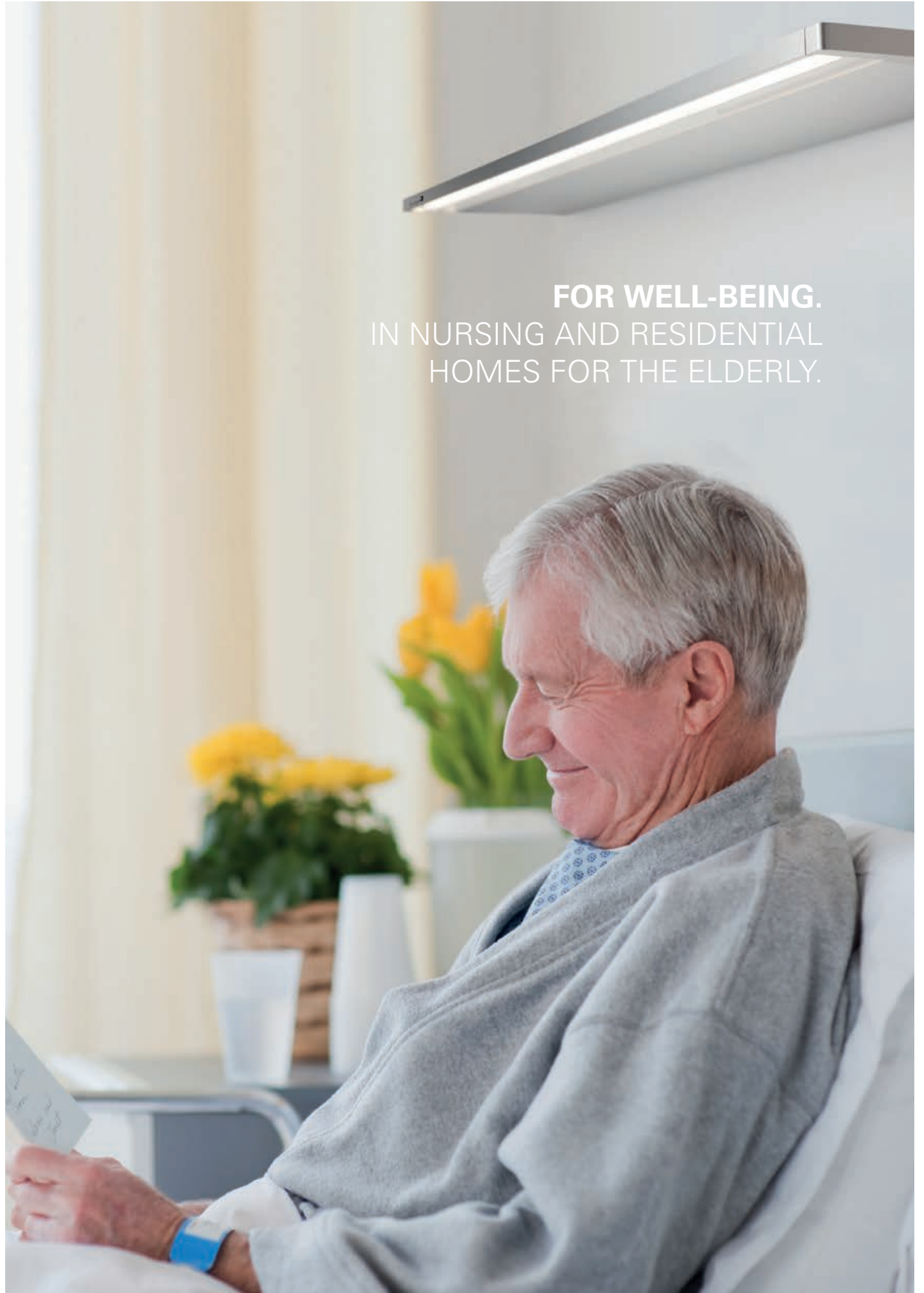
CONVALESCENCE AND CARE.
IN HOSPITAL AND MEDICAL FACILITIES.



The aim of the lighting design solution is to create an atmosphere in the room which supports the patient's convalescence in the best possible way. The ZERA Bed enlivens the interior decor by highlighting particular colors and materials. At the same time, the glare-free, indirect lighting pleasantly illuminates the room. The discreet night light ensures easy orientation without disturbing sleeping patients. Particularly in new and unfamiliar hospital surroundings patients should be able to quickly get their bearings. In addition, the ZERA Bed makes it possible to monitor patients effectively and discreetly if necessary. To make the time spent in a hospital bed pass more quickly and pleasurably, the glare-free reading light enables enjoyable reading time.

Rest for unwell or recently operated patients, constant operational readiness and rapid response times in an emergency are everyday requirements. Therefore the lighting must be extremely reliable and powerful in order to best support provision of care. The innovative examination light, determined by the size of the bed, can be quickly operated by means of a switch or optional I/O switch on the luminaire. With its high color rendering index of $Ra > 90$ and a moderate illumination intensity of 1000 lux, the examination light on the ZERA Bed creates the perfect basic conditions for examinations.





FOR WELL-BEING.
IN NURSING AND RESIDENTIAL
HOMES FOR THE ELDERLY.

The residents' living room in senior residences and care facilities is a multi-functional area: as well as being the de facto living area it is also the location where nursing care and medical treatment take place. Perfect lighting design must meet all these requirements. From a statistical viewpoint, most falls occur in the living area. Comprehensive measures in terms of the interior design, but also a versatile lighting solution like the ZERA bed, help banish the danger which the risk of falling represents. The night light helps residents and carers get their bearings more easily at night

and enables rapid activation of the room lighting, if required. The bedside wall mounted luminaire creates a sunny and welcoming atmosphere in the room with its pleasant ambient lighting. The examination lighting at the foot of the bed has an illumination intensity of 300 lux to support nursing staff in their daily care duties. More general health promotion is supported by the biologically effective light management system the VISUAL TIMING LIGHT. This – so-called human centric lighting – has a sustained positive impact on elderly people's wellbeing and sleep patterns.





ZERA CONNECTED CARE.
THE FUTURE BEGINS NOW.



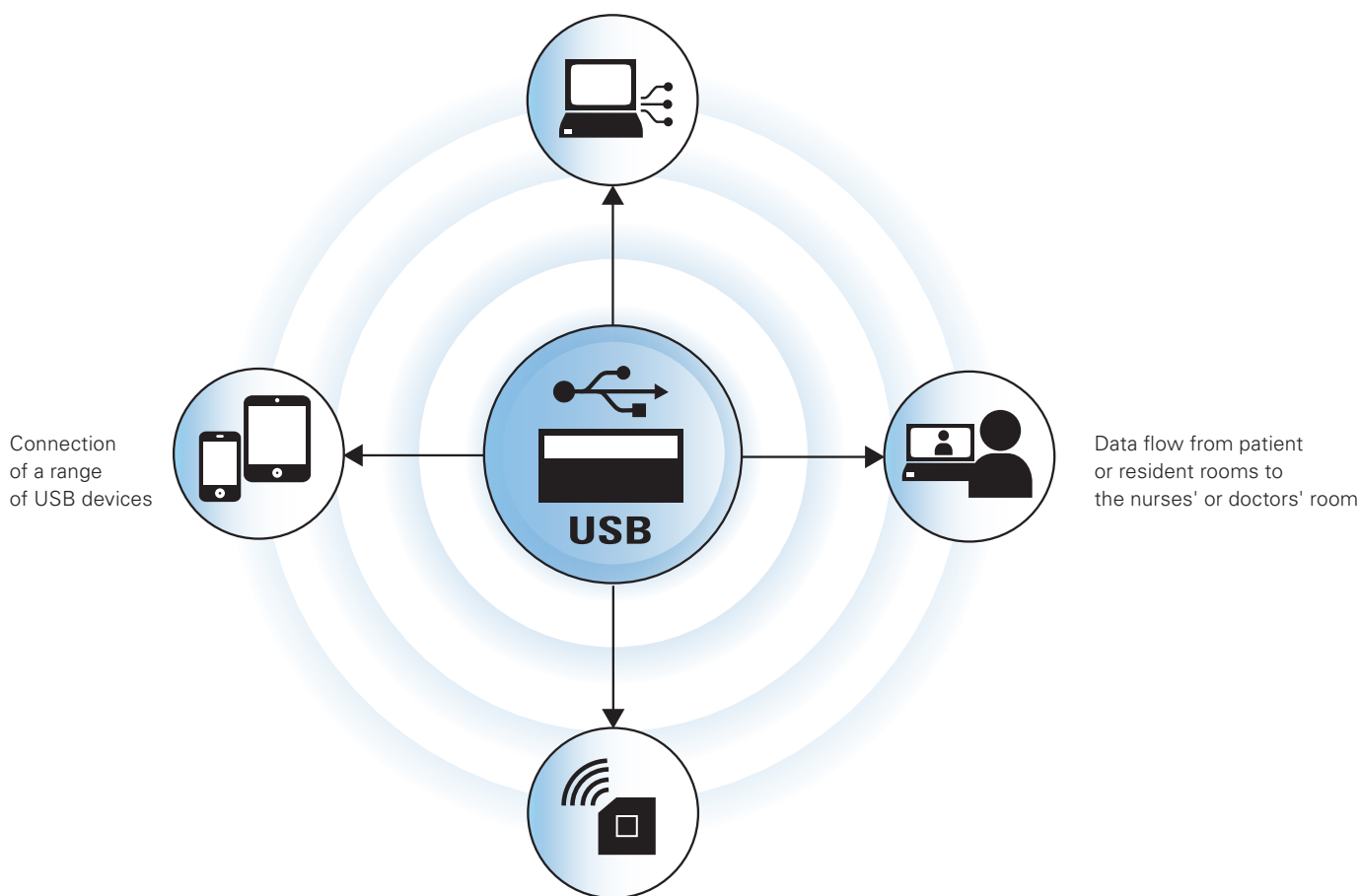
The ZERA Bed can do more. More than just providing excellent lighting. It can simplify the care process and safety in a way that is revolutionary. The optional USB network gate with the CONNECTED CARE function enables a multitude of networking possibilities. Ranging from a simple USB clinical thermometer using an RFID reader to mobility detectors.

But in the near future countless other new applications and devices will be ready for the market, making the most of the benefits of networking in hospitals and the care sector. Real-Time Location Systems (RTLS) are already in use today to rapidly locate medical devices. Highly promising mobility detectors could monitor patient movements and keep an eye on residents, offering a reliable way of improving patient safety. Welcome to hospital version 4.0!

Wireless technologies already enable the networking of existing medical equipment.

www.connectedcare.ch

Connection to PC and network



Connection of a range of USB devices

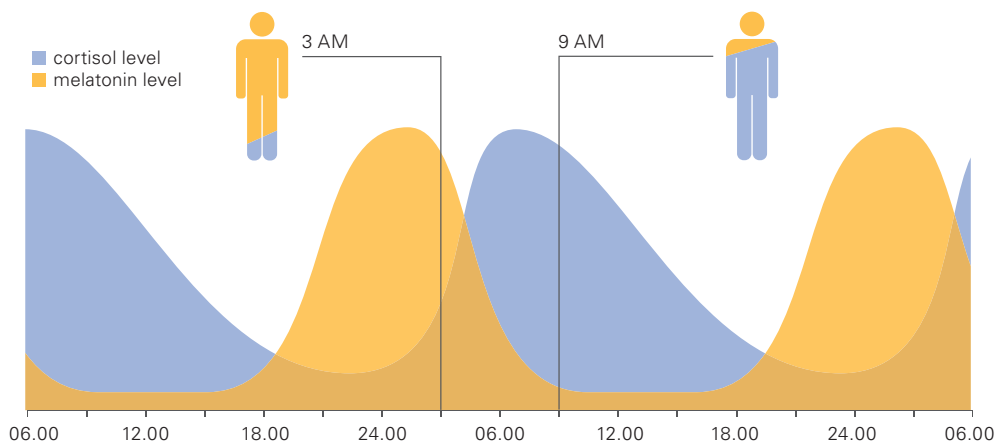
Data flow from patient or resident rooms to the nurses' or doctors' room

Assistance function

- sensor for presence or mobility detection
- daylight sensor
- ...

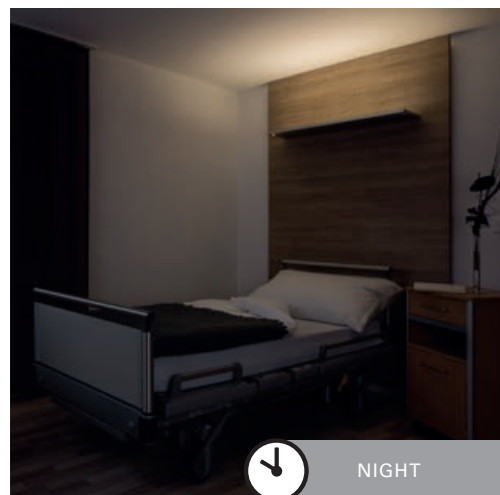
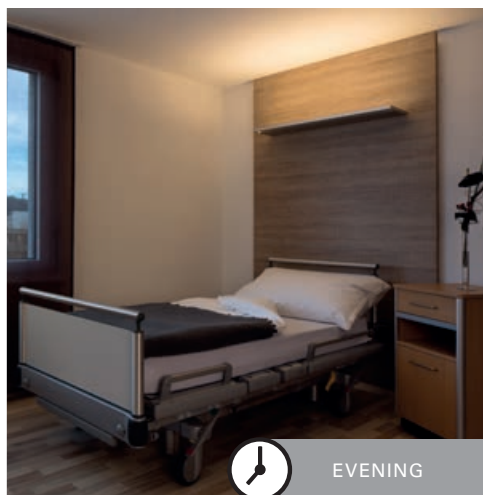
VISUAL TIMING LIGHT.
LIFE NEEDS LIGHT.





Human centric lighting – meaning biologically effective light – has long since become a well recognized issue. For more than ten years the light management system VISUAL TIMING LIGHT has helped support the sleep-wake rhythms of the elderly or bedridden. VTL is integrated as an intelligent component in the ZERA Bed. It simulates the changing daylight by automatically varying the intensity and light color of the indirect general lighting.

The clearly defined and time-dependent regulating curve is based on scientific findings and evaluations. The light color varies between 6500 K (similar to daylight, stimulating) and 3000 K (warm white, cozy). This sequence comes as close as possible to the natural light cycle and is perceived as pleasurable. It stimulates the body's endogenous metabolic processes which enhance well-being and convalescence in a natural way.



ZERA BED



Latest LED technology

for energy reduction

4 different light scenarios

general lighting, examination light,
reading light, night light



Asymmetric free-form optic

for effective light control

Elegant, flat design

for discreet integration in the room

EN 60598-2-25

suitable for rooms used for medical purposes

**Strong examination light**

for high illumination of the bed with up to 1000 lx, 4000 K, Ra > 90

**Needs-based light**

for residents, patients and staff

**High quality aluminum luminaire body**

for quick and easy cleaning

Optional

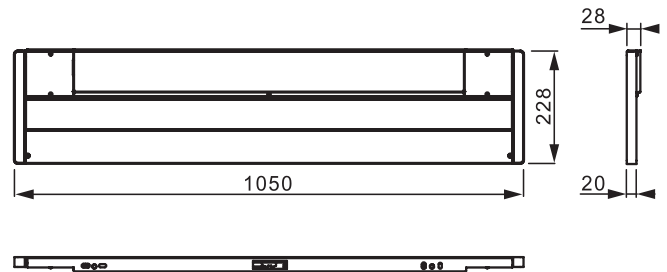
- **Circadian light management VTL**
for a biodynamic effect

- **USB network gate**
for data transmission

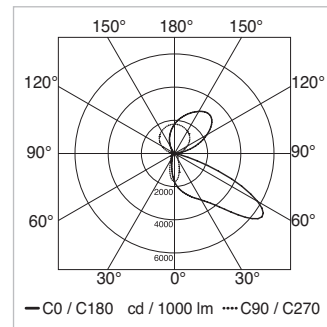
ZERA Bed



View from above



View from below



Photometric data
-10% / +20% tolerance

ZERA Bed compact

- suitable for nursing and rehabilitation facilities as well as the hospital sector
- modern very slimline design
- homogeneous, rectangular examination light with two different illumination intensities (300 / 1000 lx)
- single or combined switchable light scenarios
- can be integrated with DALI light management system
- VTL (available from mid 2016)

ZERA Bed technical

Light distribution	direct/indirect
Luminous flux	7200 lm* / 9200 lm*
Luminous efficacy	General lighting 103 lm/W*
Illumination intensity	300 lx at the end of the bed or 1000 lx at the examination level
Light color	2700 K, 3000 K and 4000 K**
Color rendering	Ra > 80 and Ra > 90 (examination light)
Measurements	1050 x 228 x 20 mm (L x W x H)

* -10 % / +20 % tolerance, ** depending on light scenario

ZERA Bed

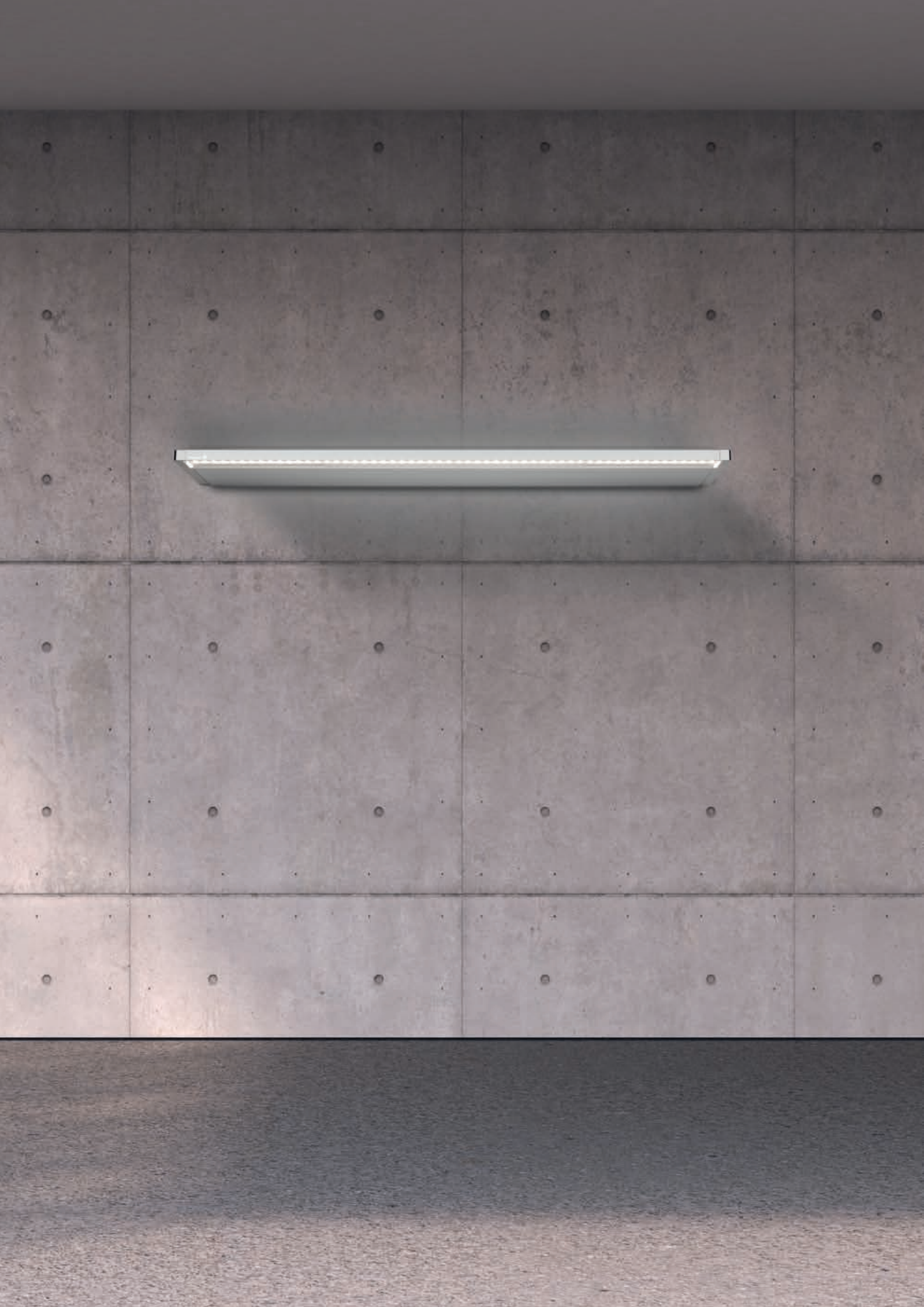
Description	ORDER NO.	Technology	Light Output	Luminous flux	Feature
ZERA Bed 36/33 W	D15.695.000	switchable	82 W	7200 lm	—
ZERA Bed 36/33 W	D15.696.000	switchable	82 W	7000 lm	without night light
ZERA Bed 36/33 W	D15.718.000	switchable	82 W	7200 lm	with rocker switch for examination light, USB connection
ZERA Bed 36/33 W	D15.720.000	dimnable DALI	82 W	7200 lm	night light = general lighting dimmed
ZERA Bed 36/33 W	D15.736.000	switchable	82 W	7200 lm	with rocker switch for examination light
ZERA Bed 36/60 W	D15.697.000	switchable	109 W	9200 lm	—
ZERA Bed 36/60 W	D15.698.000	switchable	109 W	9000 lm	without night light
ZERA Bed 36/60 W	D15.719.000	switchable	109 W	9200 lm	with rocker switch for examination light, USB connection
ZERA Bed 36/60 W	D15.721.000	dimnable DALI	109 W	9200 lm	night light = general lighting dimmed
ZERA Bed 36/60 W	D15.737.000	switchable	109 W	9200 lm	with rocker switch for examination light



Restrained and yet self-assured. That is the ZERA. The embodiment of minimalist design, the very latest lighting technology and creative freedom.

ZERA. VARIETY WHICH DELIGHTS.

If you can't get enough of the charms of the ZERA, there are already new models from the ZERA luminaire family planned for production. A splash proof version will transform even the smallest or windowless bathroom. Hallways and lounge areas can be illuminated in an elegant and timelessly beautiful manner with the particularly slimline or classic ZERA wall mounted luminaire. The ZERA adds the finishing touch to any modern interior design while simultaneously ensuring the very highest light quality.



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