



ZUMTOBEL

CLEAN II supreme

Pure light you can rely on

Designed for cleanroom environments

In hospitals, laboratories, or cleanroom production areas, the Zumtobel CLEAN II supreme family is the right solution for these special tasks. Designed for sterile environments, this product series offers different mounting options, space-saving variants, quick and easy installation and effortless maintenance. Coupled with high efficiency, optimal lighting, and varying light colour options, the result is effective lighting for all visual tasks: pure light for cleanroom environments.



Cleanroom Certified

The CLEAN II supreme is certified by the Fraunhofer Institute for suitable for use in cleanrooms in accordance with DIN EN ISO 14644-1. Complies with GMP (Good Manufacturing Practice) regulations.

Hygienic and Functional Design

Developed in line with strict hygienic design principles, the luminaire features a frameless safety glass cover with smooth, joint-free surfaces to prevent contamination and ensure effortless cleaning in cleanroom environments. Its seamless integration and tool-free handling make it both practical and easy to maintain.



APPLICATIONS

LABORATORIES



HOSPITALS





Designed for Maintenance, upgrade and repair

The CLEAN II supreme family offers you the right solution for any cleanroom environment. With the multi-layer micro-pyramidal optic MPO+, it provides the right light for labs, operating theatres, and surrounding areas, offering precise light from every angle. The reduced luminaire height variant is the answer to structural demands with less space available in the ceiling and offers planning freedom for lighting solutions. With the Essential, the cleanroom's lighting needs are covered.



Chemical Resistance

The CLEAN II supreme antistatic coating has been classified according to ISO 4628-1 and VDI 2083 Sheet 17, with the overall result of “excellent” for chemical resistance (please refer to the certificate for more details).



Quick and easy installation

The luminaire can be installed and maintained, quickly and easily in just a few minutes. The safety glass cover can be removed using a suction cup, allowing easy access to the light engines. Technicians gain valuable time, while intelligent, easy installation saves money.

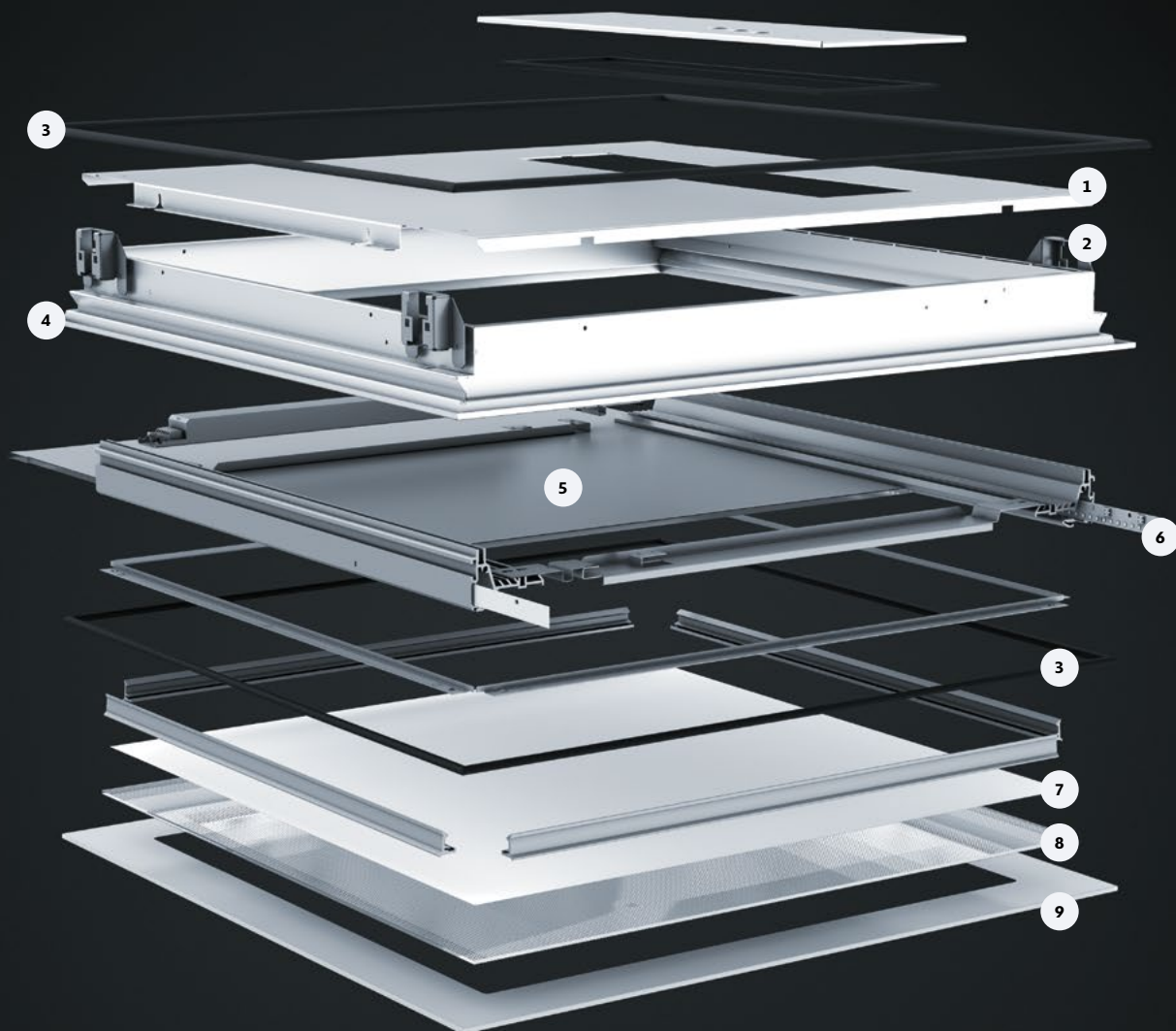


Tool free and effortless maintenance

CLEAN II supreme features a fully removable Light Engine, with side-lit technology, that requires no tools, thanks to its spring clip system. The **essential variant** (image), with back-lit technology, allows for maintenance and installation without removing the Light Engine, providing direct access to all components once the cover is removed. CLEAN II supreme variants are designed as future-proof luminaires.

Maintenance outside the cleanroom

Access via the rear of the luminaire (only valid for CLEAN II supreme top-mounting version) is particularly useful when it comes to maintenance in cleanrooms. Even as a recessed luminaire – with top mounting – sterile maintenance is guaranteed. The frameless luminaire is easy to clean and the room does not need to be entered again after first installation. The Light Engine can therefore be replaced outside the cleanroom.



1
Removable rear panel for quick installation, and maintenance without the need to enter the room (only in the CLEAN II supreme ST variant)

2
Brackets for NIV-Set

3
Foam seal to protect the luminaire from the ingress of water, steam and cleaning agents

4
Powder-coated steel housing, resistant to aggressive cleaning agents

5
Removable Light Engine, equipped with side-lit technology, guiding the light over a laser pointed plate in order to guarantee a homogeneous output

6
High-quality LEDs based on a ceramic chip for excellent thermal management

7
Optical foil ensures homogeneous appearance

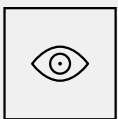
8
MPO+ guides the light precisely and evenly, reduces glare, and ensures high luminous efficiency

9
Tempered safety glass, specially prestressed for 3 times the resistance to breakage, creates a hygienic, easy-clean, chemically-resistant cover

Picture depicts
CLEAN II supreme recessed top mounting

Precise light guidance and optimal illumination

A special feature of the CLEAN II supreme is the multi-layer micro-pyramidal optic MPO+. The light is refracted and guided in a controlled manner with pleasant distribution even at steep emission angles. This allows for flexible positioning of the luminaire and offers precise light from any angle.



MPO+ technology – in brief

The micro-pyramidal optic refracts the light in a very defined and specific way. The light is directed and creates contrasts without multiple shadows, ensuring precise lighting that is particularly suitable for operating theatres and laboratories. Due to the rough surface of the pyramids on similar optics, it is noticeable that the light is refracted in different directions and the distance between the individual light beams varies.

The result: diffused, precise light in the room. With Zumtobel MPO+, on the other hand, the refracted light beams are always parallel. The perfectly controlled light refraction creates a pleasant light with a perfect balance between diffused and directional light. High lumen packages ensure rooms flooded with light and optimal glare control.



Safe and clean

The CLEAN II supreme's non-porous, antistatic glass cover prevents the build-up of germs and bacteria – perfect qualities in a high-class cleanroom luminaire. The safety glass cover is 98% less likely to spontaneously break than conventional tempered safety glass. The use of extra-white glass avoids the green tint of conventional glass covers and ensures the high quality of light needed for precise and complex tasks.

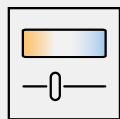
Human-centric solutions for cleanroom environments

CLEAN II supreme offers options to switch between red, green, blue, and white light. Together with its double-asymmetric light distribution, this ensures precise adaptation to the demanding needs of hospitals and cleanrooms. tunableWhite variants are also available, actively supporting the human circadian rhythm to promote comfort and well-being.



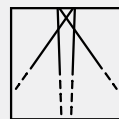
Z-SPECTRUM

The addition of solutions including Z-Spectrum technology delivers accurate colour rendering and superior visual clarity, making it ideal for critical tasks. More than just a light, it's a future-ready, human-centric solution designed to respond to people, processes, and precision.



Human Centric Lighting – health-promoting, natural daylight

Designed to support health and well-being, CLEAN II supreme luminaires integrate tunable-White technology to simulate the natural rhythm of daylight. With a color temperature range from 2700 K to 6500 K, the system ensures high color consistency and stable lumen output across all settings. This allows for dynamic lighting scenarios that enhance concentration, comfort, and recovery – ideal for patients, medical staff, and examination rooms.



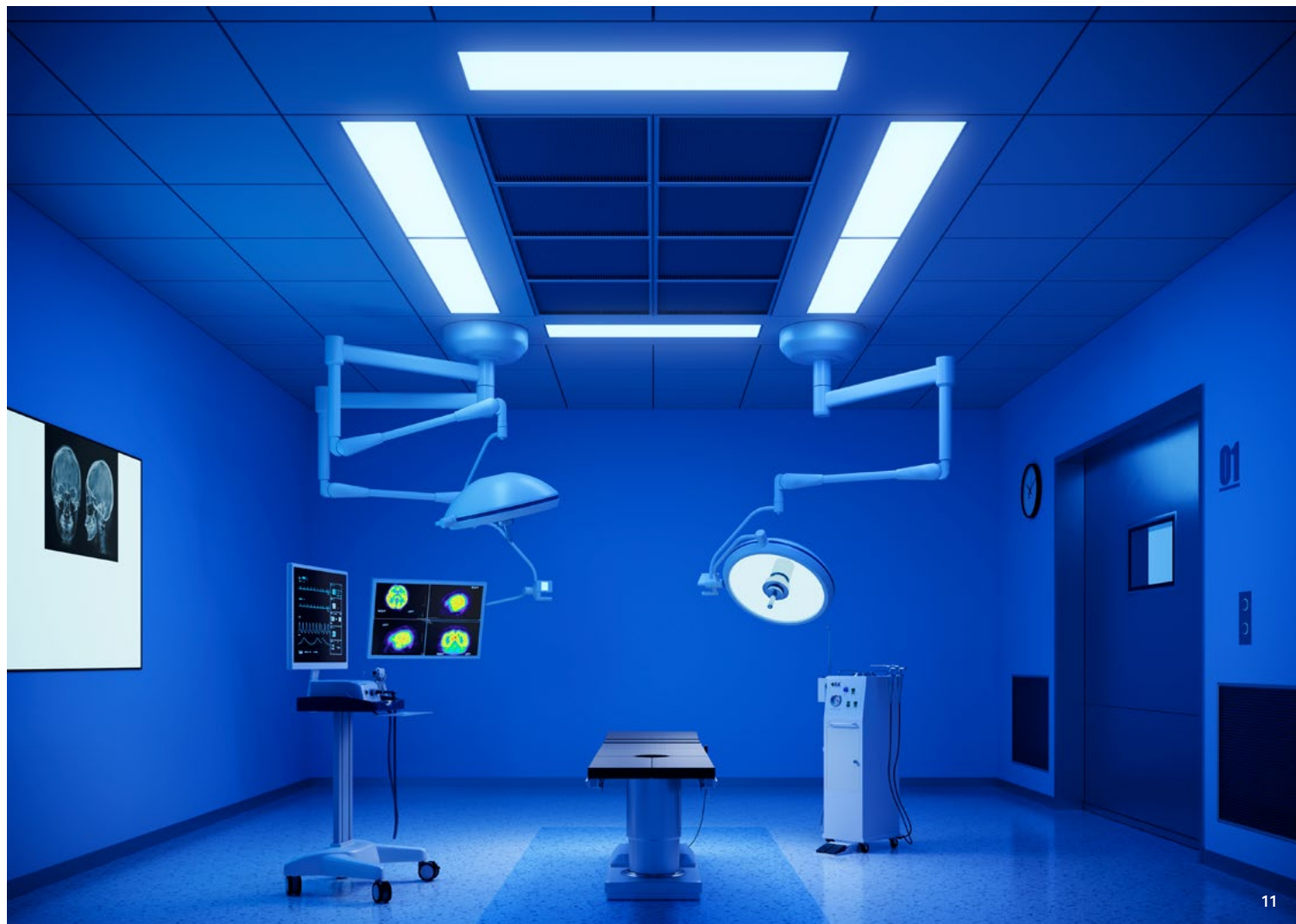
Asymmetrical colour change

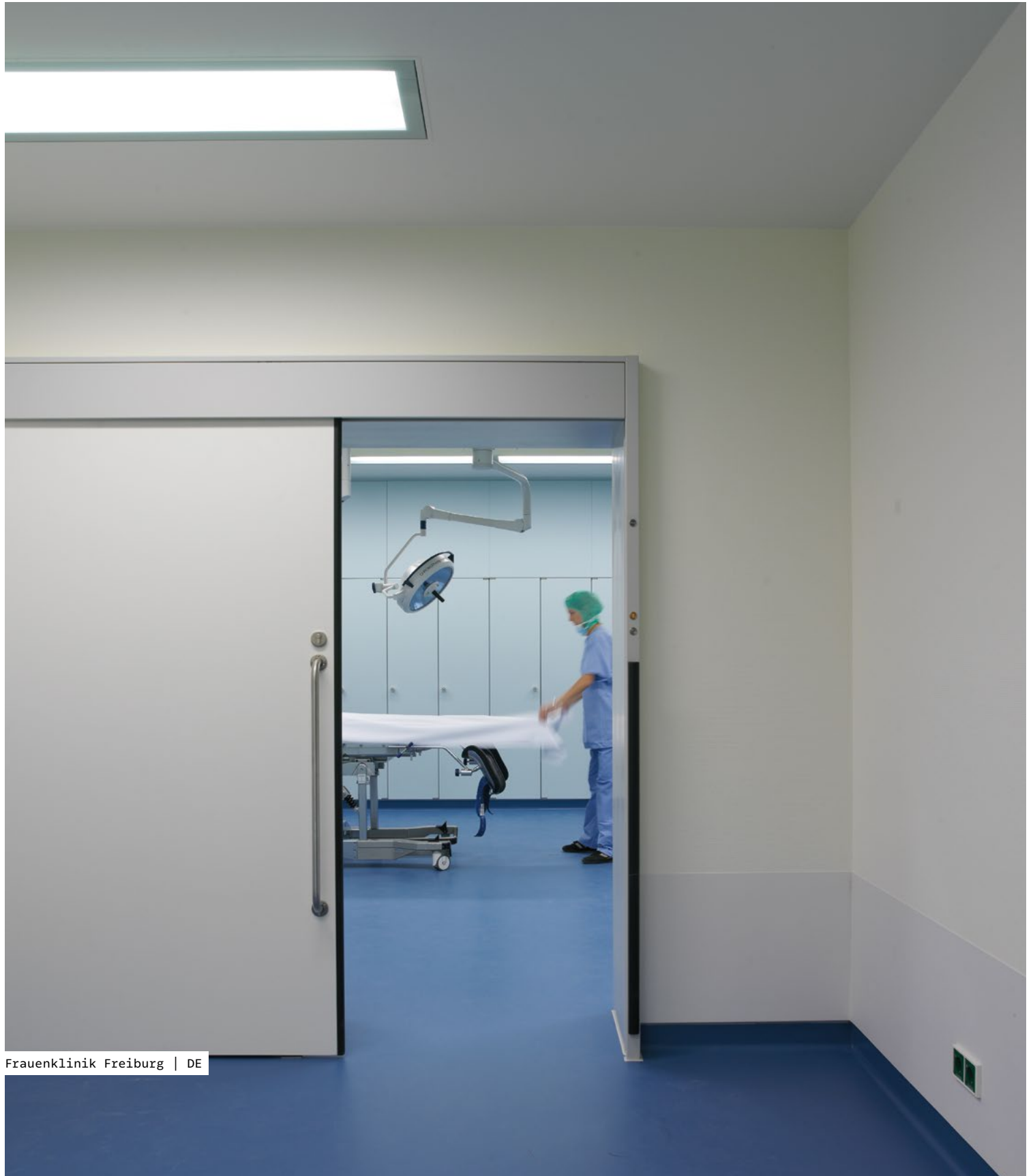
The luminaire's ability to shift between red, green, blue, and white light, combined with a double-asymmetric distribution, ensures optimal lighting conditions in medical environments. During surgical procedures, white light (< 2000 lux) illuminates the field, while secondary beams in blue or green can be activated to support staff visibility without disturbing the patient.



Disturbance-free light

Rooms in hospitals or laboratories require powerful but interference-free light sources. Wide-beam, asymmetric, and glare-free light meet important requirements for carrying out demanding tasks in cleanrooms.







Frauenklinik Freiburg | DE



Ospedale-Di-Mendrisio | CH



Clinica Merli, Rimini | IT

Designed for circular product cycles. And sustainable growth.

Engineered for demanding environments, CLEAN II supreme fulfills the highest standards in key areas of circularity. Its modular design allows replacement of individual components instead of the whole luminaire, supporting circular principles. With a tool-free handling that makes servicing easy, reducing downtime and maintenance costs. Made from durable, reusable materials, it can also be disassembled easily at the end of life and recycled.

Zumtobel Circular Design Rules (CDR)

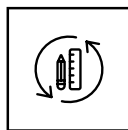
Initiated in collaboration with consultants EPEA Switzerland and the EOOS design studio, the Zumtobel Group's Circular Design Rules (CDR), which have undergone significant further development within the company and have been integrated into the product development process, are setting new standards for the circular economy: from sustainable procurement processes and innovative product design to smart systems for maintenance, remanufacturing, and recycling – a well-thought-out concept for a circular future.



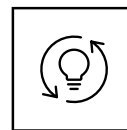
The CLEAN II supreme essential offers easy maintenance and installation without removing the Light Engine and is designed to be future-proof.



CIRCULAR SOURCING**



CIRCULAR DESIGN



CIRCULAR SYSTEMS

CLEAN II supreme essential *

Recycled Material

% of recycled material



28%

The product is made with 28% recycled materials, supporting a circular approach.

Design for Disassembly

% of disassemblable parts



97%

Components can be dismantled non-destructively. An enabler for circular systems.

Maintenance, Repair, Upgrade

Availability of the solution



100%

CLEAN II supreme essential can be serviced, modified, or enhanced by the customer.

HIGH LIGHT

Recyclability

% of recyclable materials



68%

At the end of the product's lifetime, 68% of the materials are recyclable.

Design for Durability

% of reusable materials



95%

Almost all components are ready for remanufacturing, supporting a circular system solution.

Reuse, Remanufacturing

Availability of the solution



N.A.

The remanufacturing option is not in scope for cleanroom luminaires due to certification requirements.

CLEAN II supreme recessed (42186892)*

Recycled Material

% of recycled material



36%

The product is made with 36% recycled materials, supporting a circular approach.

Design for Disassembly

% of disassemblable parts



96%

Components can be dismantled non-destructively.

Maintenance, Repair, Upgrade

Availability of the solution



100%

CLEAN II supreme can be serviced, modified, or enhanced by the customer.

HIGH LIGHT

Recyclability

% of recyclable materials



63%

At the end of the product's lifetime, 63% of the materials are recyclable.

Design for Durability

% of reusable materials



98%

Most components are ready for remanufacturing, supporting a circular system solution.

Reuse, Remanufacturing

Availability of the solution



N.A.

The remanufacturing option is not in scope for cleanroom luminaires due to certification requirements.

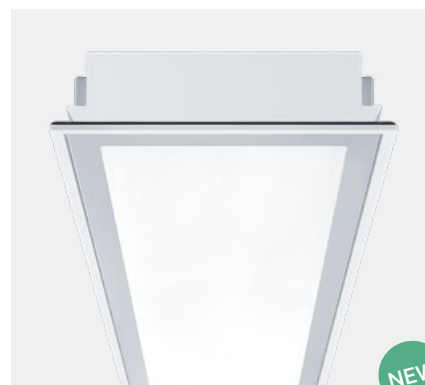
* Product information based on CDR calculation referenced product

** Disclaimer: Circular sourcing calculation based on product weight. Material data based on available Supplier Information 02/2025.



CLEAN II industry*

RECESSED LUMINAIRE



CLEAN II supreme essential

RECESSED LUMINAIRE

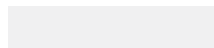
Quadratic:



Lumen package: 4600 lm, 5600 lm, 6200 lm
Dimensions: M600Q 598 x 598 x 80 mm
M625Q 623 x 623 x 80 mm

4600 lm, 6600 lm, 7800 lm
M600Q 598 x 598 x 80 mm
M625Q 623 x 623 x 80 mm

Linear:



Lumen package: 4600 lm, 5400 lm, 6000 lm
Dimensions: M600L 1198 x 298 x 80 mm
M625L 1248 x 311 x 80 mm

6600 lm, 7800 lm
M600L 1198 x 298 x 80 mm
M625L 1248 x 311 x 80 mm

Impact resistance:

IK03

IK07

Degree of protection:

IP65 (IP50 from above)

IP65 (IP50 or IP54 from behind)

Housing material:

Powder-coated sheet steel

Powder-coated sheet steel

Cover material:

PMMA (polymethyl methacrylate)

Tempered safety glass

Colour rendering CRI:

Ra 80, Ra 90

Ra 80, Ra 90

Light distribution:

Symmetrical (opal optic)

Symmetrical

Colour temperature:

3000 K, 4000 K, 6500 K

3000 K, 4000 K

Glare control:

UGR < 22

UGR < 19

Control/lighting management:

DALI dimmable (LDO), MWCF,
Bluetooth® Control (BC)

DALI dimmable (LDO)

Emergency lighting:

E3D, central battery supply

E3D, central battery supply

Additional certifications:

HACCP, ISO, GMP

ISO, GMP

** CLEAN II industry provides the right light for demanding visual tasks in industrial cleanrooms. The heat- and chemical-resistant cover combines hygiene with brilliant illumination for the food industry, laboratories and commercial kitchens.*

zumtobel.com/clean



Video: CLEAN II supreme essential maintenance features



CLEAN II supreme	CLEAN II supreme	CLEAN II supreme
RECESSED LUMINAIRE	RECESSED TOP-MOUNTING LUMINAIRE	SURFACE-MOUNTED LUMINAIRE
4600 lm, 6200 lm, 6400 lm, 6600 lm M600Q 598 x 598 x 75 mm (57 mm) M625Q 623 x 623 x 75 mm (57 mm)	4600 lm, 6400 lm, 6600 lm M600Q 598 x 598 x 75 mm (57 mm) M625Q 623 x 623 x 75 mm (57 mm)	4600 lm, 6200 lm, 6400 lm, 6600 lm Q610 609 x 609 x 57 mm
6200 lm, 6600 lm M600L 1198 x 298 x 75 mm (57 mm) M625L 1248 x 311 x 75 mm (57 mm)	6200 lm, 6600 lm M600L 1198 x 298 x 75 mm (57 mm) M625L 1248 x 311 x 75 mm (57 mm)	6200 lm, 6600 lm, 8000 lm, 10000 lm L1250: 1249 x 349 x 57 mm L1550: 1549 x 349 x 57 mm
IK07		
IP65 (IP50 or IP54 from behind for recessed luminaires)		
Powder-coated sheet steel		
Tempered safety glass		
Ra 80, Ra 90		
Symmetrical, asymmetrical (red, green, blue, white)		
3000 K, 4000 K tunableWhite (2700 K to 6500 K), Spectrum, GBW, RGBW		
UGR < 19		
DALI dimmable (LDO), MWCF, Bluetooth® Control (BC)		
E3D, central battery supply		
ISO, GMP		

T H E L I G H T



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