

Sidèrea  
**3KL**  
BACTERIAL KILLER

WELLNESS AND SAFETY IN A SINGLE CEILING LIGHT



EXPERIENCE AND INNOVATION  
SINCE 1948

# SIDÈREA BKL

A SINGLE DEVICE TO GUARANTEE  
**LIGHT QUALITY AND PROTECTION** FROM  
VIRUSES, BACTERIA, AND SARS-COV-2

Always committed to improving light performance and the well-being of operators and their users, FARO has developed **Sidèrea BKL** the ceiling light that, thanks to the **near-UVA LED technology**, also becomes a **disinfection device for the work environment**.



**LIGHT SPECTRUM FOR EXCELLENT CONTRAST AND DETAIL VISION**

**DISINFECTING AND REDUCING BACTERIA AND SARS-COV-2 WITH NEAR-UVA LED LIGHT**

Entirely Made in Italy, **Sidèrea BKL** guarantees a more realistic solar spectrum lighting with double illuminant to offer a **homogeneous and proportionate lighting** avoiding both shadow areas and "cave" effect. Scientific Research has repeatedly confirmed not only how sunlight is the best and most realistic source of lighting but is itself a natural antibacterial\*.

The lighting technology features are integrated with the near-UVA beam **disinfection function**, thus transforming the ceiling light into an instrument to prevent and reduce the risk of **cross-contamination** from viruses and bacteria enclosed environments.

**Disinfection of the working environment results in a guarantee for the health of medical staff and all users.**

## EFFICACY PROVEN IN THE LABORATORY

In the *Departments of Molecular Medicine and Development and Medical Biotechnology of the University of Siena* **Sidèrea BKL** was tested on the **SARS-COV-2** virus and on the **Escherichia coli** and **Staphylococcus aureus** bacteria.

Laboratory tests have shown that Sidèrea BKL allows up to **99.5%** abatement of SARS-COV-2 present on surfaces.\*\*

EFFICACY AGAINST <b>STAPHYLOCOCCUS AUREUS</b>		
60 MIN		<b>93%</b>
120 MIN		<b>97%</b>
180 MIN		<b>99%</b>
EFFICACY AGAINST <b>ESCHERICHIA COLI</b>		
180 MIN		<b>90%</b>
240 MIN		<b>95%</b>
300 MIN		<b>99%</b>
SARS-COV-2 REDUCTION*		
15 MIN		<b>87%</b>
90 MIN**		<b>97%</b>
180 MIN**		<b>99.5%</b>

\* Performed with a small system at double power.  
\*\* Equivalent minutes reported to the real system.

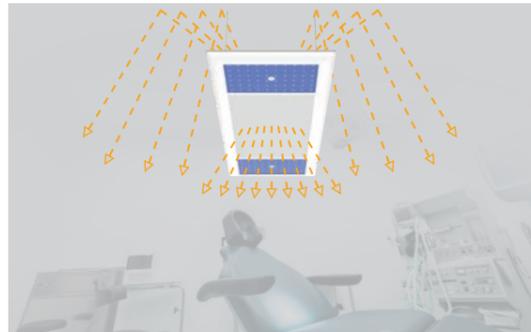
\* Daylight exposure modulates bacterial communities associated with household dust published In Fahimipour et al. *Microbiome* (2018) 6:175 - <https://doi.org/10.1186/s40168-018-0559-4>.

\*\* Department of Molecular and Developmental Medicine: EVALUATION OF VIRUCIDE ACTIVITY AGAINST SARS-COV-2 OF nUVA CEILING LAMP BY FARO - TEST ON nUVA-A CEILING LAMP BY FARO.

# TECHNOLOGY

## DIRECT AND INDIRECT LIGHTING

Multidirectional light for a homogeneous and proportionate illumination of the environment.



## CUSTOM ILLUMINATION

Adjustable light intensity according to the surgery conditions and operating time, thanks to the **remote control** with 5 light scenarios pre-configured by FARO and rewritable by the user.

## THREE DEDICATED CYCLES FOR THE DISINFECTION PROCESS

The intensity of the disinfection action which is performed through a homogeneous distribution of near-UVA rays, varies according to the exposure time and the extent of the surfaces to be treated.



**SHORT CYCLE - 15 MINUTES**  
RECOMMENDED DURING THE BREAK BETWEEN PATIENTS



**AVERAGE CYCLE - 90 MINUTES**  
RECOMMENDED AT LUNCH BREAK



**LONG CYCLE - 180 MINUTES**  
RECOMMENDED OVERNIGHT



## NEAR-UVA AND UVC RAYS IN COMPARISON

NEAR-UVA RAYS	UVC RAYS
<ul style="list-style-type: none"> <li>• They do not produce secondary oxidative components such as ozone.</li> <li>• Minimization of health risks through easily controllable systems.</li> <li>• Reduced ageing effect of materials</li> </ul>	<ul style="list-style-type: none"> <li>• Corrosion and premature yellowing of irradiated surfaces (e.g. plastics)</li> </ul>
<ul style="list-style-type: none"> <li>• Can be used in the presence of people*</li> </ul>	<ul style="list-style-type: none"> <li>• Products with UVC rays cannot be used in the presence of people as scientific evidence shows the danger of these on humans. Direct exposure can cause serious damage and illnesses to eyes and skin such as injuries, burns, premature ageing and skin cancer*.</li> </ul>

\* In compliance with the regulations follow the indications in the user manual.

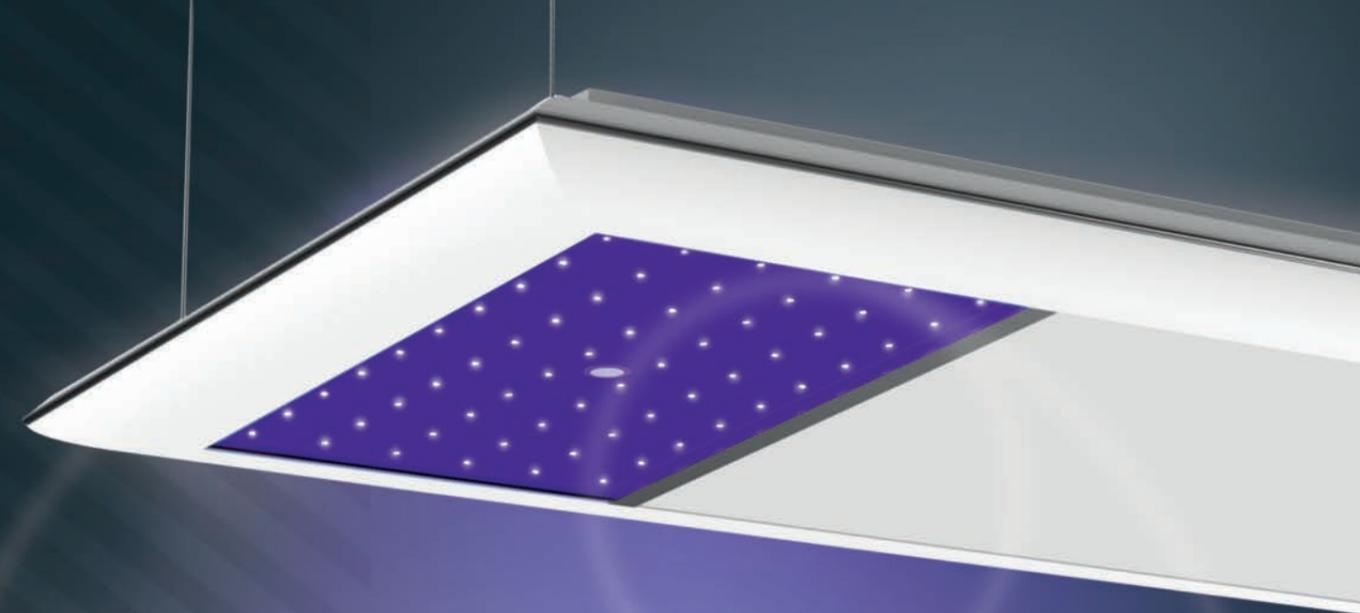
\* Environmental Health Criteria 160 - Ultraviolet Radiation - World Health Organisation, Geneva 1994.

# TECHNICAL FEATURES

GENERAL SPECIFICATIONS*	SUNLIGHT MODE	BKL MODE
POWER	200 W	300 W
DIMENSIONS	1.605 x 645 mm	
WEIGHT	18 Kg	
LUX	Up to 2.200 LUX (at a distance of 1,4 m)	N/A
COLOUR TEMPERATURES	6.500 K	N/A
TM 30	Rf 97.3   Rg 100.3	N/A
UGR	<10	N/A
MEMORIZATION OF THE LAST ILLUMINATION LEVEL	•	N/A
NO FLICKER SYSTEM	•	N/A
NUMBER OF DISINFECTION CYCLES	N/A	3
PROGRAMMING OF DISINFECTION CYCLES	N/A	•
WI-FI CONNECTION	N/A	•
MAXIMUM DISINFECTANT EFFICACY**	N/A	99,5
PHOTOBIOLOGICAL EN 62471 RISK LEVEL	0	2

\* The technical data reported, unless otherwise indicated, refer to the sunlight mode and represent typical values subject to tolerance.  
RED Regulations directive 2014/53/EU

\*\* Departement of Molecular and Developmental Medicine: EVALUATION OF VIRUCIDE ACTIVITY AGAINST SARS-COV-2 OF nUVA CEILING LAMP BY FARO - TEST ON nUVA-A CEILING LAMP BY FARO.



WITH THE **NEAR-UVA LED TECHNOLOGY**, DISINFECTION OF THE WORKING ENVIRONMENT RESULTS IN A GUARANTEE FOR THE HEALTH OF MEDICAL STAFF AND ALL USERS.

Sidèrea **BKL**





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