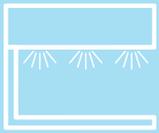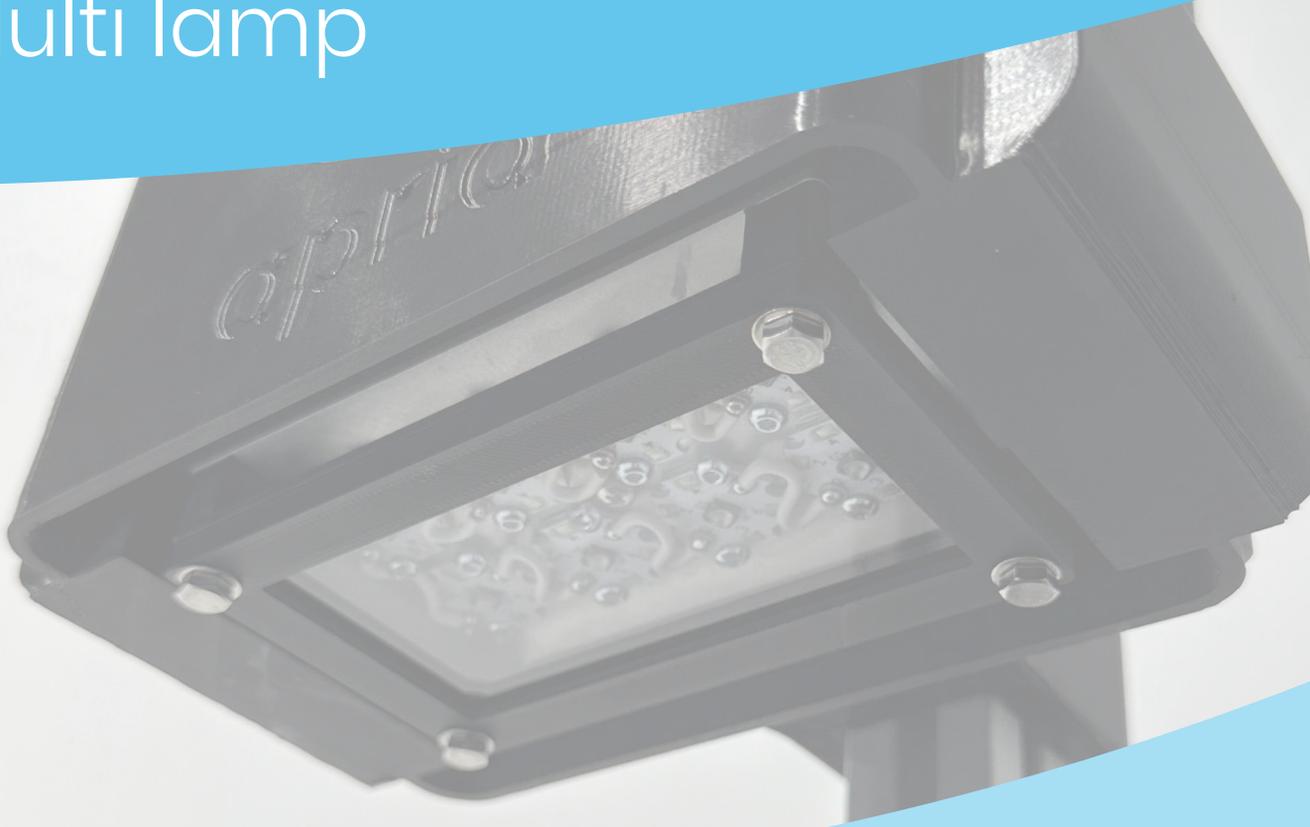# LED PHOTOREACTORS
Multi lamp

apria

External illumination

LED technology

Adjustable radiation intensity

The equipment

Apria Systems has designed a series of flexible tabletop lamps with **LED technology**, designed to meet the requirements of our clients. Our equipment can be tailored to each application thanks to a wide selection of LED wavelengths and customizable features.
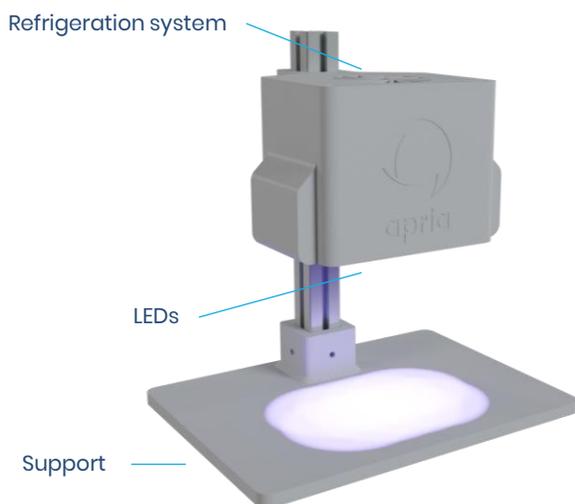
Each multi lamp has several **LEDs** with up to two **different types of light.** The **radiation intensity can be regulated** through an electronic console with PLC, offering an adjustment to the needs of the treatment.

The **temperature of the LEDs is monitored** and controlled through a system of forced air convection, allowing to maximize their efficiency and lifetime.

The lamp includes a support with **adjustable distance.**

Elements of the system

Refrigeration system

LEDs

Support

Operation

1. Set the sample to be irradiated under the lamp

2. Select the working type of light, adjust its radiation intensity, and switch on the lamp

3. Perform the photochemical treatment

Extremely easy

We offer a wide range of alternatives to adjust our equipment to your needs

Characteristics

Number of LEDs	1 – 10
Configuration	Single or double wavelength
Irradiated area (cm^2)	1 – 100
Adjustable radiation intensity	Yes, through an electric console with PLC
Refrigeration system for the LED	Forced air convection
Optional items	Exchangeable lamps

Source of light

Type of light	Wavelength (nm)	Peak (nm)	Radiant flux / LED
UV-C	263 – 268	265	100 mW
	268 – 280	275	
UV-B	295 – 305	300	32 mW
UV-A	365 – 370	365	1,200 mW
Violet	400 – 410	405	1,260 mW
White	400 – 700	450	315 lm
Blue	453 – 460	457	1,350 mW
Green	520 – 530	523	450 mW
Yellow	587 – 598	590	470 lm
Red	618 – 630	623	935 mW
NIR	835 – 875	850	930 mW
FIR	920 – 960	940	1,350 mW

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