



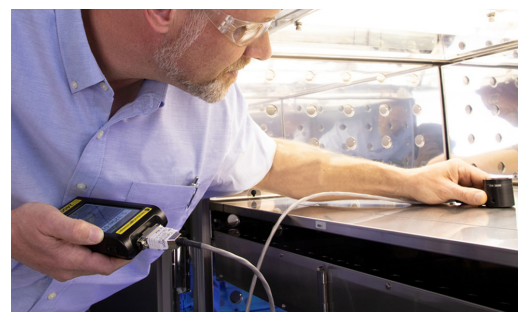
Photostability Chamber Lighting System

Our specially designed lighting system utilizes benchtop and upright floor models to provide up to three simultaneous light studies with adjustable, uniformly-controlled light levels across product shelves.

Intensity within units is easily and individually controlled at each light bank with a microprocessor-based controller and a photo diode sensor to provide a fully automated, closed-loop control system.

THE FEATURES OF EACH LIGHT BANK INCLUDE:

- Automatic adjustment of lamp output to maintain intensities at varied conditions
- Interchangeable cool-white, near-ultraviolet, full-spectrum, and dual-source cool white/ultraviolet banks designed to meet Option 2 of current guidelines
- Three banks in upright floor model
- One bank in the benchtop model
- Independent light level and timing controls at each individual light bank with timers for precise testing durations
- Individual front reflector panels allow doors to open without disturbing tests at other light shelves (upright only)
- Highly transparent light barrier for maximum transmission of visible and near-ultraviolet light while providing protection for the bulbs
- Stainless-steel light bank shell with specular aluminum interior for corrosion resistance and high reflectivity
- Shelf-mounted telescoping sensor capable of accurate measurement and control of light levels through varied temperatures, product heights, and reflective conditions
- Controlling sensor at each light surface
- Precision, silicon photo diode light sensor – factory calibrated per National Institute of Standards and Technology (NIST) traceable standards
- Light level setpoint configuration in kilolux or watts-per-square-meter, with digital light level display
- High-frequency electronic dimming ballasts for up to 20-percent more efficiency than traditional electromagnetic ballasts
- Available in a wide range of temperatures as low as 5°C

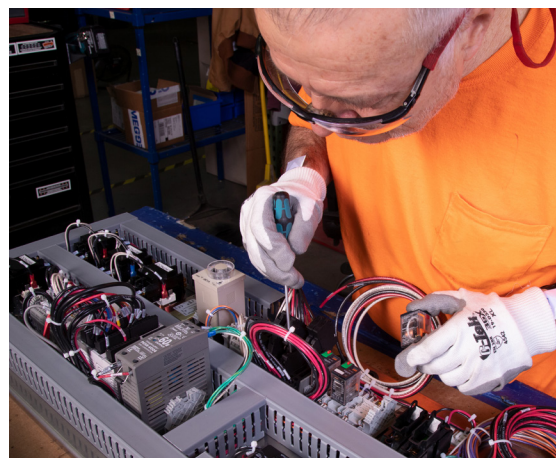


**Infinitely
Precise.
Ultimately
Reliable.**

 **Environmental
Specialties**
An EMCOR Company

TECHNOLOGICALLY ADVANCED LIGHTING

Extensive research and development have led to our unique bulb layout, crafted for uniform exposure in a seven-lamp operation. The system provides high-intensity, uniform light levels through the use of optimum bulb positioning, highly reflective materials, and high output biax lamps.



Special high-grade specular aluminum covers all vertical surfaces for ultimate reflectivity, resulting in excellent uniformity and higher light levels. The biax lamp design allows for 40-watt, T-5 lamps to fit into a system normally capable of holding only 15- to 20-watt, T-8 lamps.

Additionally, our popular dual-source light bank integrates cool white and ultraviolet light into a single bank, independently controlled by a corresponding light sensor for a total of two light systems at each shelf. Each source may be operated independently or simultaneously with light uniformity within ± 10 percent in the standard 70-percent marked region. This option is standard on the benchtop model and available as an option on the upright floor model.

