



E-SERIES SURGICAL LIGHTING
WITH BRITe™ TECHNOLOGY

CHROMOPHARE®





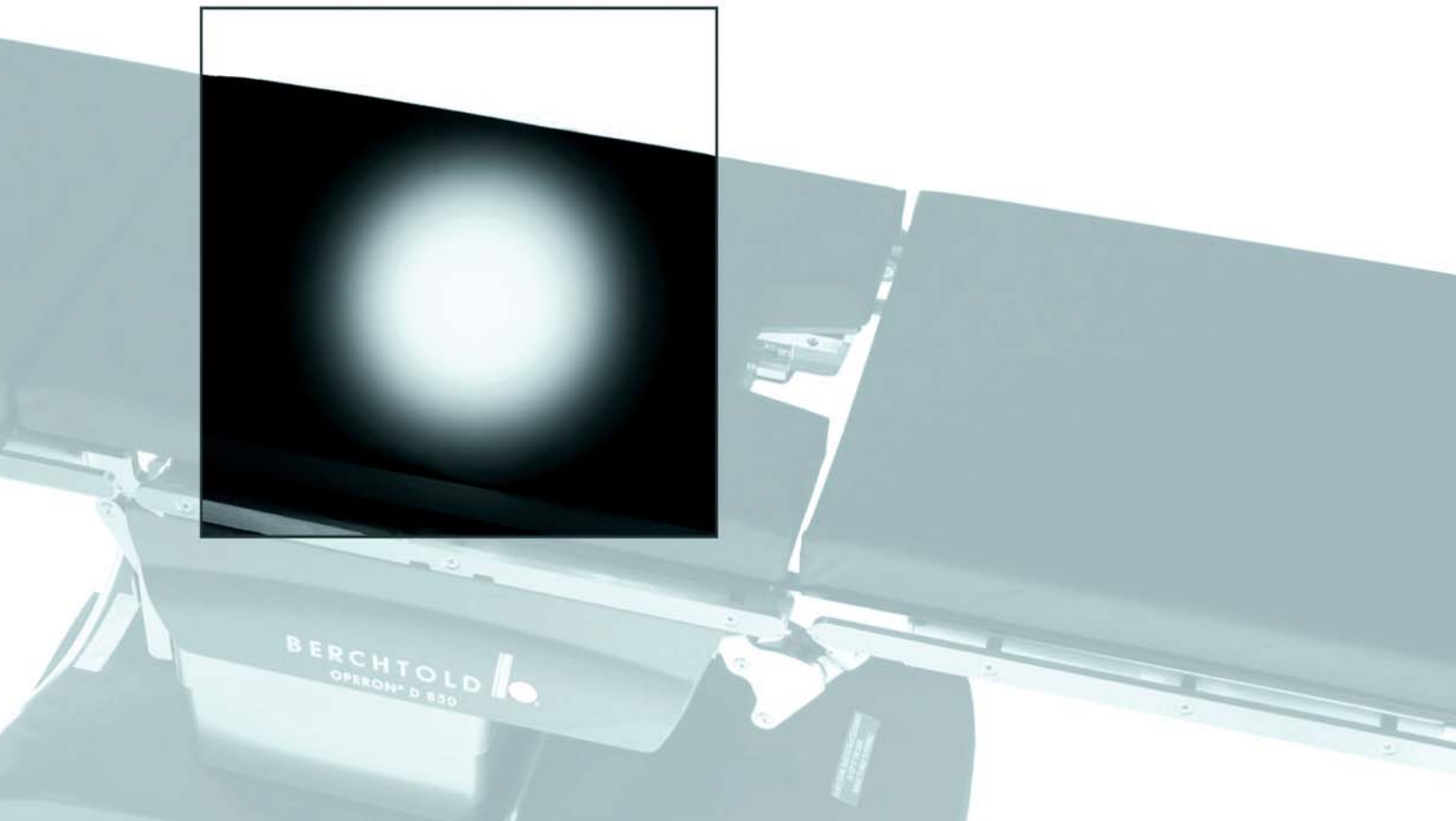
CHROMOPHARE® BRITe™ – For every field of application

BRITe™ stands for BERCHTOLD Reflective Illumination Technology, a halogen technology that reflects unwanted, warm IR radiation directly back to the filament. The heat is »recycled« by heating the filament further.

CHROMOPHARE® lights thus have up to 50% greater intensity, but with the same energy consumption and light head temperature. This quantum leap in modern OR light technology becomes especially apparent in surgical fields that are large and deep. Under these conditions, BRITe™ technology reaches its full potential. As a result, CHROMOPHARE® lights provide intensity of up to 160,000 Lux and light field diameters of up to 32 cm.

	E-Series	E 800	E 650	E 550	E 520
Surgical light benefit	160,000 Lux peak illuminance (LUX plus™)	■			
	BRITe™ technology	■	■	■	■
	Intensity smoothing polygon reflector	■	■	■	■
	Innovative dual cardanic suspension system	■	■	■	■
	Universal future-proof suspension system	■	■	■	■
	Low operating costs	■	■	■	■
	Proven technology	■	■	■	■
	Future support	■	■	■	■
	Mobile and wall mount			■	■
	Ceiling and TC mount	■	■	■	■
	Dual control	■	■	■	
	Communication interface (RS 232)	■	■	■	

TRUSTED



Big Spot – Smooth Transition

The E 800, with its powerful BRITe™ light source, offers a unique intensity in its huge 32 cm spot. The **large pattern** transitions smoothly into a concentrated spot, giving you **unmatched flexibility and strong visualization** of the surgical site.

Consistent Illumination

BERCHTOLD's new CHROMOPHARE® E-Series uses second-generation BRITe™ halogen technology, combined with our **redesigned one-piece polygon reflector** that directs light in a uniform pattern from its single, large surface. With our **intensity-smoothing optics**, you'll see well across the spot, even as its size changes.

True-to-Life Colour Rendering

We understand how important colour temperature is to accurately interpret tissue during a procedure in your operating room. Our **crisp white light**, with a high CRI, offers you a vivid, true-to-life, high intensity light. We've improved on sunlight.

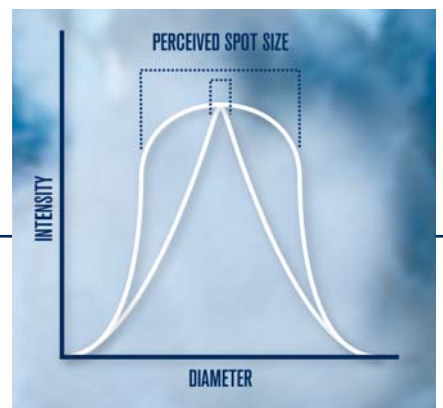
Cool Performance

Using a BERCHTOLD Reflective Illumination Technology (BRITe™) halogen bulb and the 99% efficient **ThermoSorb heat filtration system**, the surgical site and surgical team stay cool during even extended procedures, with no tissue desiccation. Since our technology filters out ultraviolet and infrared light, the lighting medium is cool and efficient.

ADVANCED

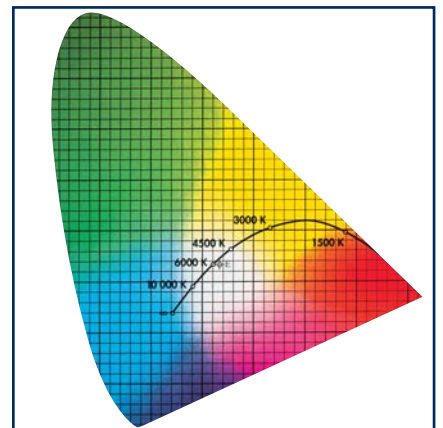
Engineering Perfection

Discover the intuitive design behind the CHROMOPHARE® E-Series with BRITe™ halogen technology. We observed OR lights in use. We queried surgeons, clinicians and administrators. We considered your every possible need. Then we refined our optics and lamp efficiency to achieve unparalleled clarity, intuitive responsiveness and predictable reliability.

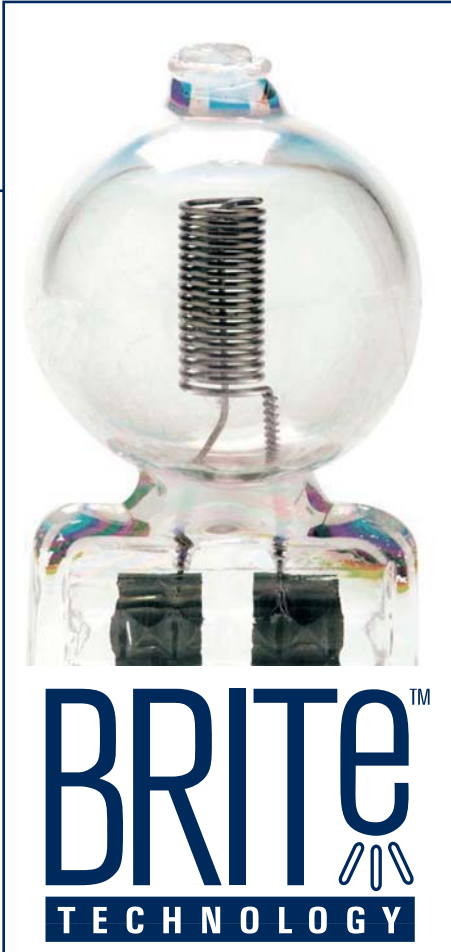


Shadowless

Our BRITe™ light source and our pioneering polygon reflector optics ensure that the single bulb/single reflector approach directs light at an angle, **minimizing shadows** throughout the surgical site, and creating a deep, penetrating **light that actually expands inside the cavity**.



Planck's colour temperature curve
4,500 K daylight human eyes see best



Easy to Use

Easy, intuitive controls, as well our lightweight construction and slim light head design ensure effortless light head control and positioning. You'll enjoy the convenience of BERCHTOLD's easy-to-use wall control, available as recessed or surface mount. Further, the optional **EndoLite®** – low-level illumination at the top of the CHROMOPHARE® lighthouse – is designed especially for minimally invasive procedures and the safe movement of staff through a darkened operating room.

Future Ready

When you choose the CHROMOPHARE® E-Series, you have the peace of mind that any uncertainties regarding the flexibility of your operating room are a thing of the past. The suspension system – with **dedicated video conductors** – is designed for quick and easy accommodation of future lighting technologies. You can upgrade your system with minimal downtime.

Maneuverable

The newly-designed, robust and lightweight dual-point cardanic suspension system, with a full **360 degree rotation** of the light-head, provides you vibration-free, easy positioning. Regardless of which E-Series model you choose, you'll find all sizes move with the same ease. Further, our up to 2000 mm horizontal arm and spring-arm connection accommodates the majority of operating room sizes, including those with low ceilings. And our sterilizable handle covers and perimeter lighthouse rails offer one-hand, accurate positioning from inside or outside the sterile field.

Reliability

Our E-Series is inexpensive to maintain, hassle free and predictable. And CHROMOPHARE's proven automatic mechanical reserve BRITe™ bulb activates within milliseconds, providing constant illumination of the surgical field without any change in the pattern. There is no need to worry about lamp failures. BERCHTOLD's second-generation BRITe™ halogen bulb has 1000+ hours of life and **bulb replacement is easy**. Since no tools are required, it can be scheduled on a preventative maintenance basis or as needed. Unlike competing lamps, which use proprietary elements, BRITe™ is commercially available, ensuring constant performance, in addition to CHROMOPHARE's signature functional conveniences. Effortless bulb replacement, proven bulb technology, and a robust mechanical design all contribute to low cost ownership.

Longevity

BERCHTOLD's E-Series will be a fixture in your operating room for many years to come. The **aluminum construction**, with **powder-coat paint** and enhanced **safety glass lens**, ensures longevity. Further, as a precaution for unexpected eventualities, a **reserve BRITe™ bulb** shifts into the same position as the primary bulb for a consistent pattern size.



Better Light by Design

CHROMOPHARE® E-Series with BRITe™ technology offers:

- A generous, consistent spot
- Colour temperature with a high CRI for accurate tissue rendering
- Deep, consistent light field
- Highly configurable, allowing you to build light sets around your OR:
 - Three head sizes
 - Single, double, or triple light configurations
 - Combines with flat panel, dual flat panel, or custom accessories
 - Mounts on a T/C-ready pendants, reducing costs and improving space utilization
 - Future-ready suspension facilitates technology upgrades
 - Available camera prep, EndoLite®, and emergency power backup solutions can be installed as needed
 - Recessed wall-mount electronics/control enclosure makes service and upgrades even easier
 - Widest range of arm and tube lengths, adjusting the light setup to fit the vertical and horizontal geography of your rooms



Experience the Difference

Contact us to arrange for a demonstration of the CHROMOPHARE® E-Series and to experience the difference yourself. You'll see that CHROMOPHARE® is about results. Experience the brightness of the light, edge to edge. Experience superior shadow control, no matter how deep the cavity. Experience a spot illumination tailored to your surgical site.

For over 85 years, BERCHTOLD has been a world leader in the design and manufacture of quality surgical equipment. With our focus on the operating room, we deliver best in class products, experienced planning and project management, and service with a personal touch. We measure our success by the quality of our customer and employee relationships. Our products and services ...

- CHROMOPHARE® surgical and examination lights
- ChromoVision® video and camera systems
- ChromoView™ monitor arms
- OPERON® surgical tables including a full range of accessories
- ORICS® telemedicine
- SUPERSUITE® custom surgical environments
- TELETOM® equipment management systems
- 3D-OR™ surgical room design software
- Design, consulting, project management and customer support
- Factory trained service and installation support

We invite your inquiry and the opportunity to assist in the planning, design and installation of your next surgical environment.



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All values according to EN 60 601-2-41.
All lighting data max. +/- 10% tolerance.