



# HELIOLUX

UL LISTED MEDICAL LED LIGHT ENGINE

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## ADVANCED LED LIGHT ENGINE

HelioLux is an advanced LED light engine engineered for integration into high-performance medical systems.

### Designed for Medical Device OEMs:

Ideal for product managers seeking a lighting partner, HelioLux provides a stable, validated, and configurable illumination platform ready for OEM use.

## APPLICATIONS

- Surgical microscopes
- Specialized optical/retinal imaging
- Endoscopes/laparoscopes

### SPECIFICATIONS

POWER CONSUMPTION	UP TO 108 W
LED EMISSION FLUX	> 5000 LUMENS
DIMMING RESOLUTION	10-BIT (4096)
ULTRA COMPACT	5 X 4.5 X 5.5"
HIGH SPEED PULSING	UP TO 1MHZ (1/1000000/SEC)
COLOR RENDERING INDEX	> 92 CRI
SPECTRUM	CALL FOR OPTIONS
MADE IN THE USA	MEDICAL 60601 UL LISTED REGISTRATION E483728



## COMPACT AND PRECISE CONTROL

- **Lifespan:** High quality components and an efficient design that avoid excess thermal or electrical stress.
- **Internal Monitoring:** HelioLux monitors its own health (temperatures, fan speeds, current, etc.) for increased system uptime and reliability.
- **Flexible Communication:** Ethernet or USB options for computer-based control.
- **Advanced Dimming:** Provides a truly flicker-free operation. Ultra-precise dimming and unmatched light stability through 10-bit resolution and a stable DC power supply, ideal for high-speed imaging and precision applications.
- **Power and Optical Collection Efficiency:** Maximizes light collection and projection into fiber using optics or CPC reflector technology.



CE certified and UL classified. Engineered and made in the USA for global OEM integration.

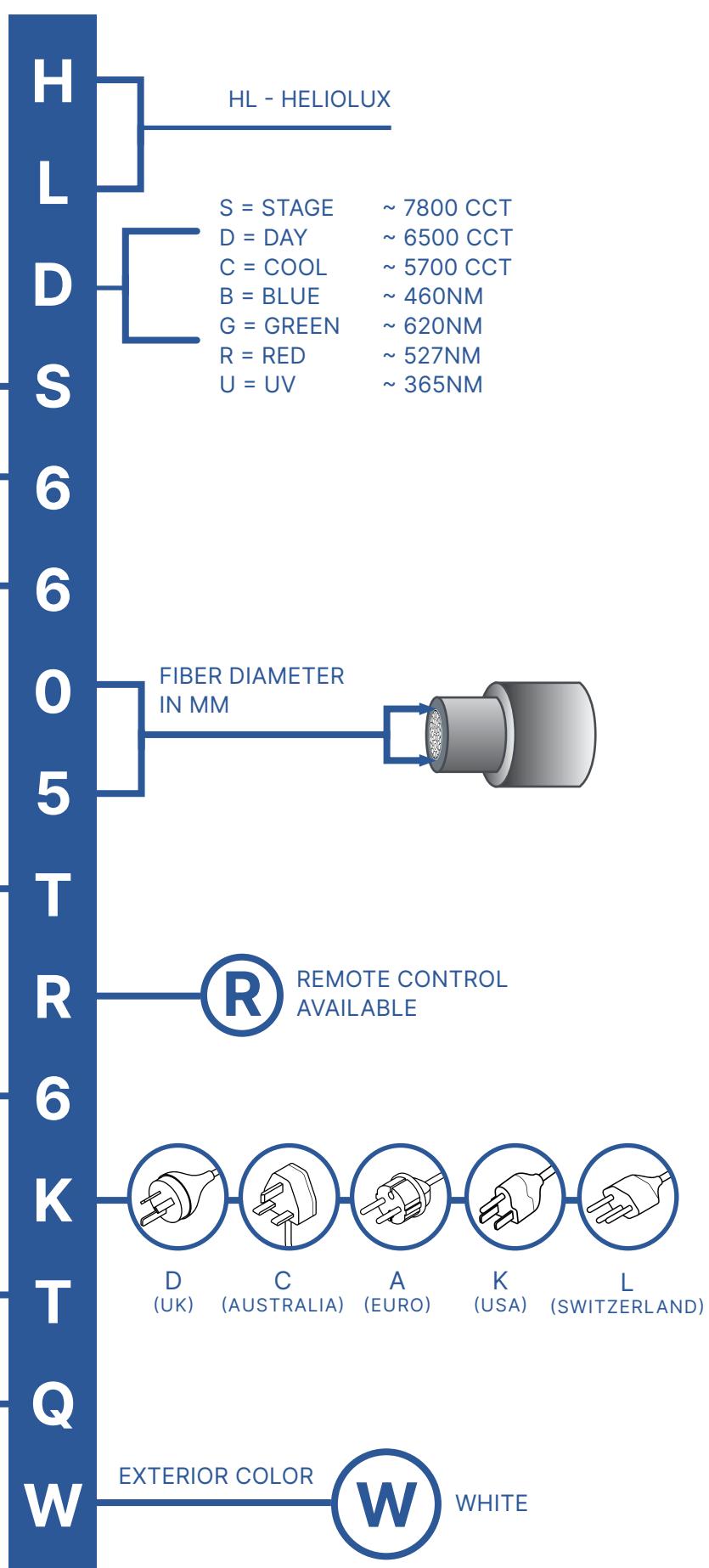
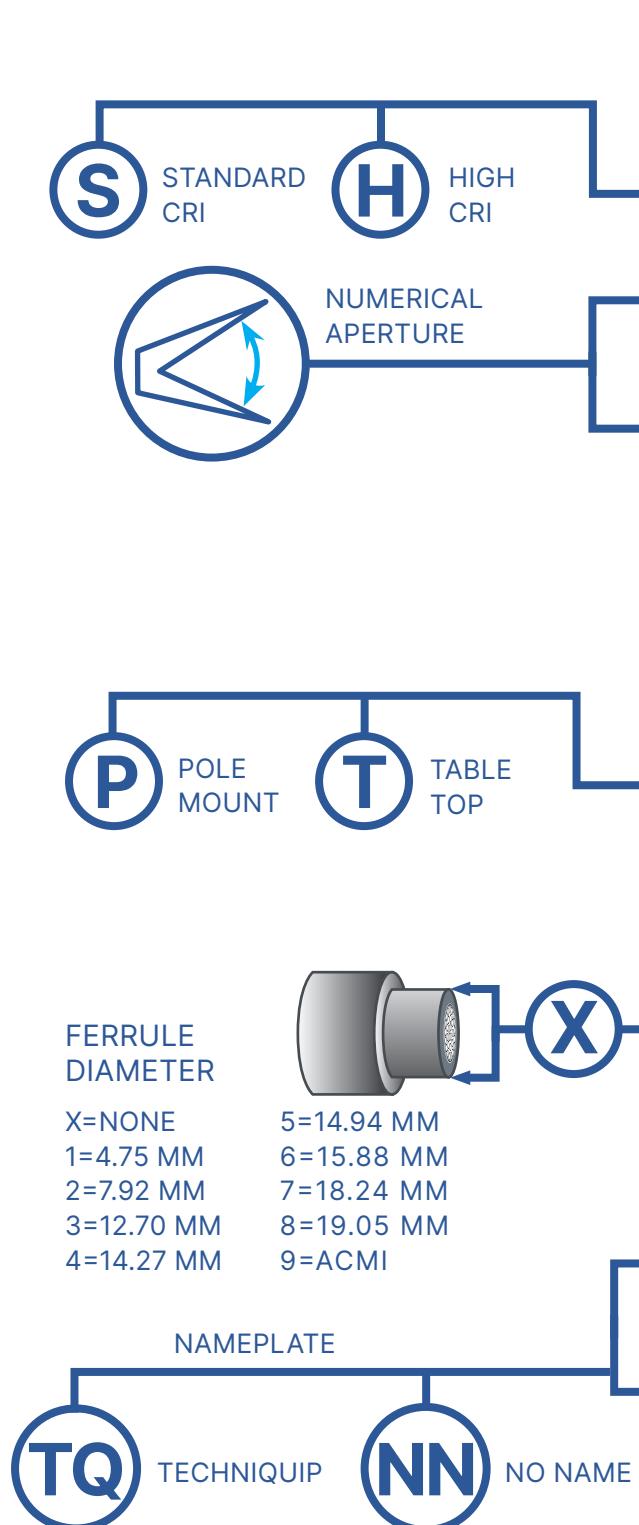
HelioLux delivers premium performance and validation at a highly competitive price point, helping OEM teams achieve more with their development budgets.



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## STANDARD OPTIONS

### SELECTION GUIDE



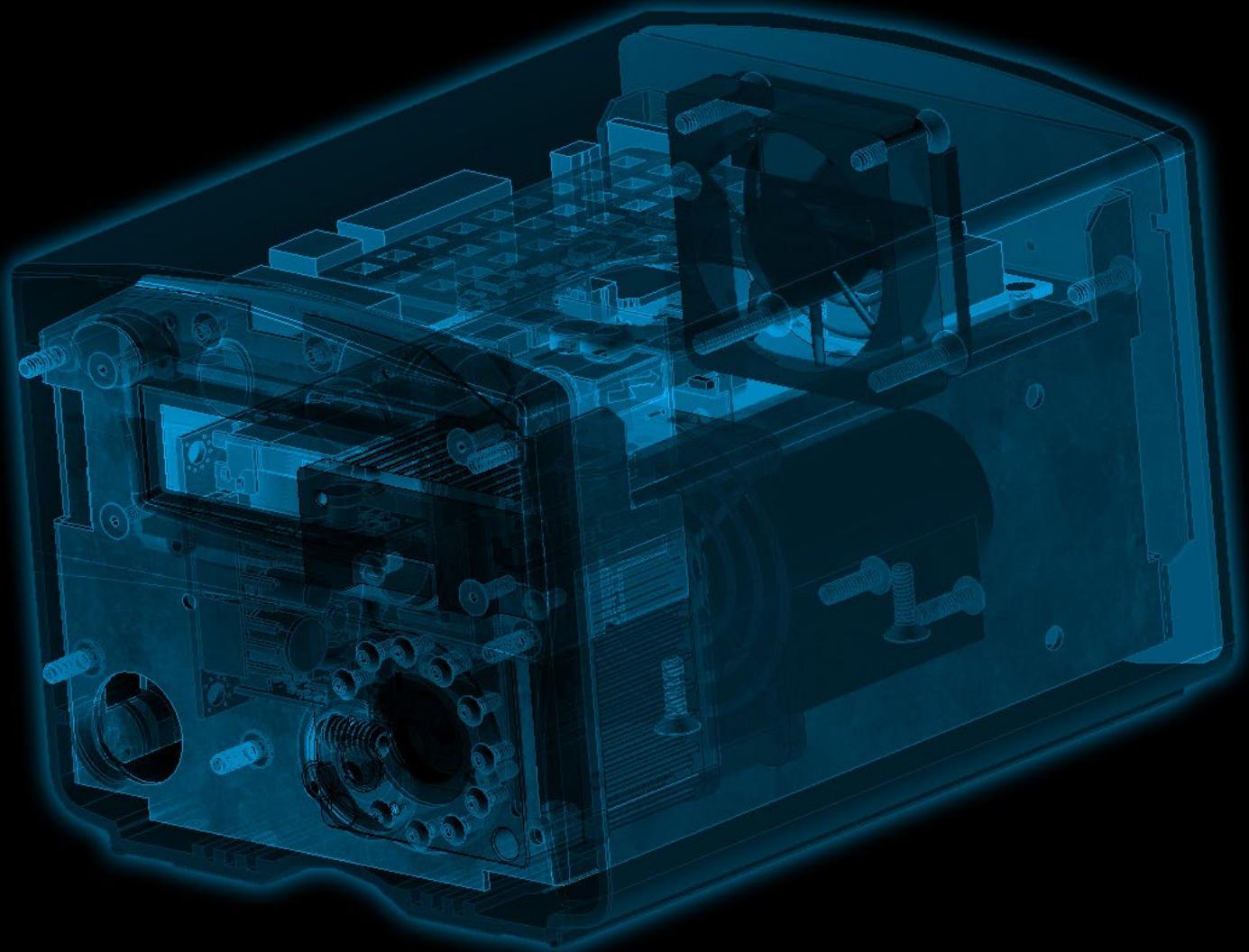


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## Tested Performance

IEC 60601-1-1:2012 General Requirements for Safety (Medical)

IEC 60601-1-2:2014 Electro-Magnetic Compatibility (Medical)

IEC 62471: Photobiological Safety

IEC 62304: Software Safety Classification (Pending)

IEC 62366: Usability (As Part of A Medical System)

IEC 60601-1-6: 2013 Usability (As Part of a Medical System)

Test Reports and Risk Files available upon request.



MEDICAL - GENERAL MEDICAL EQUIPMENT  
AS TO ELECTRICAL SHOCK, FIRE AND MECHANICAL  
HAZARDS ONLY IN ACCORDANCE WITH  
EN 60601-1-1 ED. 3.1 + AMD 1 (2012),  
EN 60601-1-2:2014 ED 4.0:2015, 62471:2006  
E483728