

2023 EPIC Online Technology Meeting on Bio-Imaging

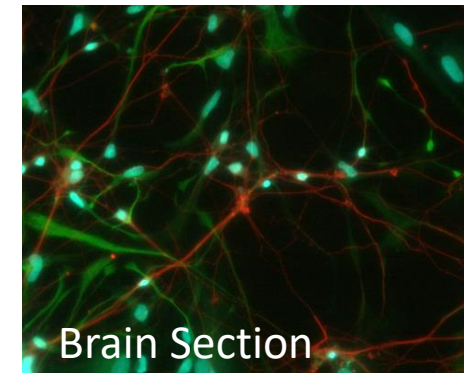
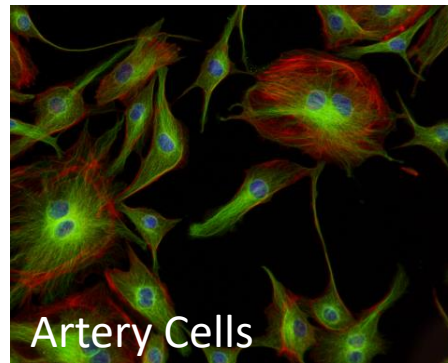
Next Generation LED Illumination for Bio-Imaging and Biophotonics

Presented by Gerry Whoriskey



What we do at CoolLED

- Design and manufacture high intensity LED Illumination Systems for fluorescence microscopy and related OEM systems.
- Sell worldwide.



Why LED Illumination?

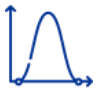
Compared to arc lamps, LEDs have many benefits:



Stability – Repeatability



Long lived & reliable – No replacement/alignment



Discrete wavelengths – High contrast



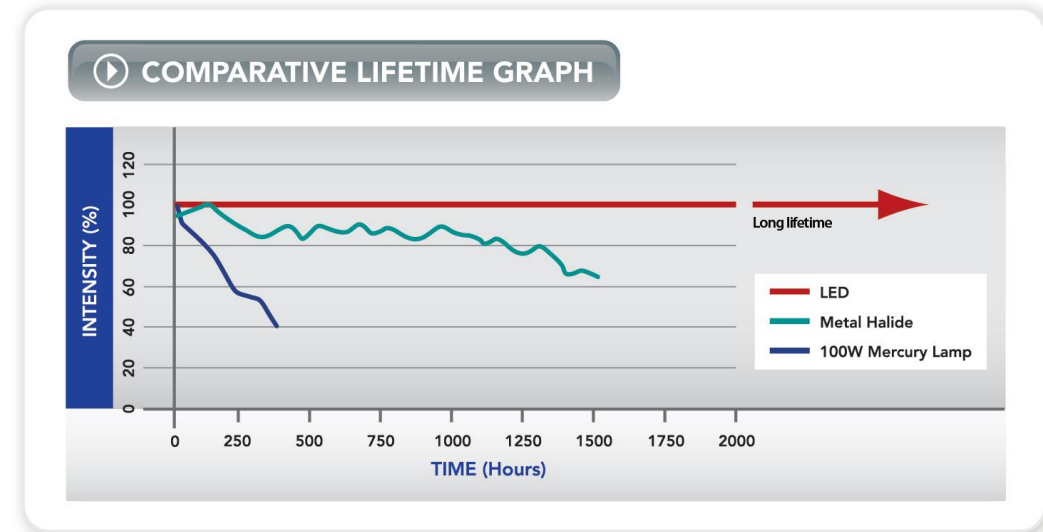
Cost effective over time – Savings of \$40,000*



Sustainability – Energy efficient, no mercury



Control – For ultra-fast imaging, convenience and low phototoxicity

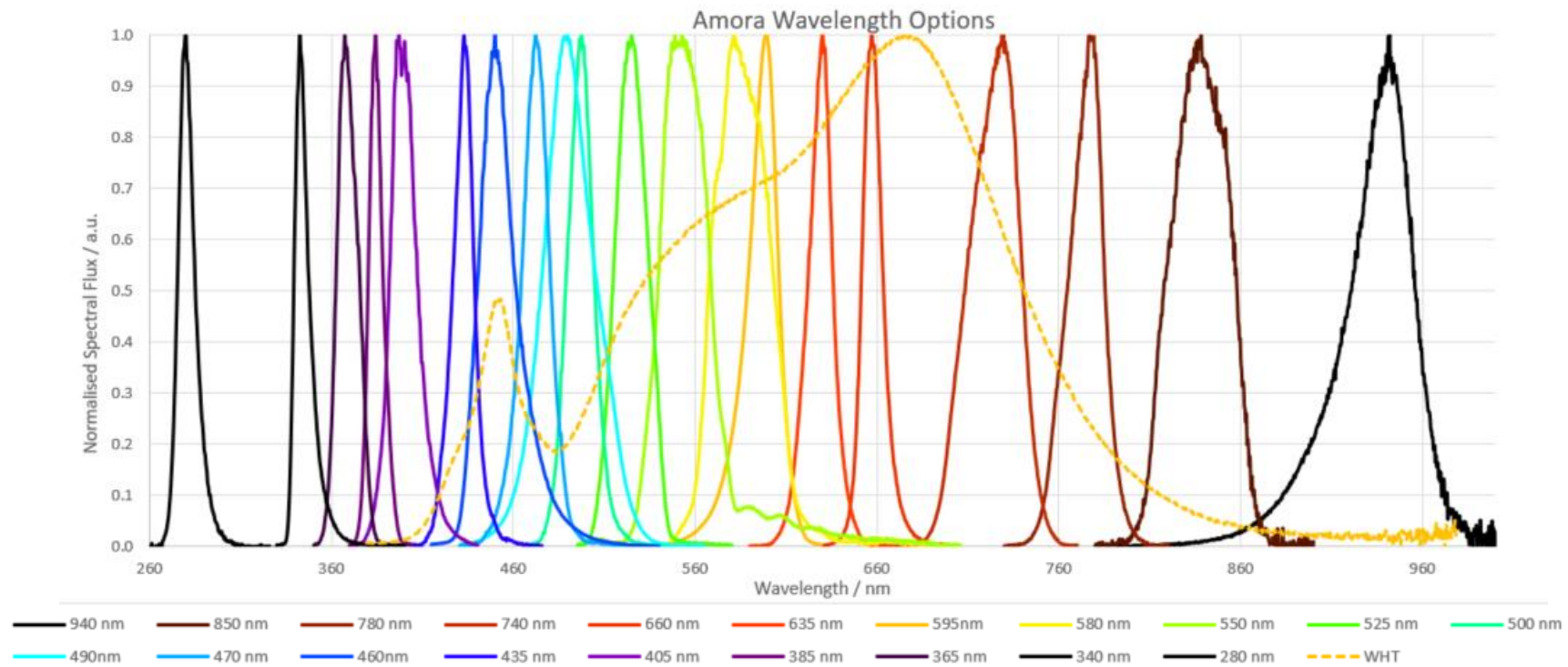


*Green Light Laboratories (2017). Mercury versus LED study. Available at: www.cooled.com/wp-content/uploads/2019/08/Green-Light-Laboratories-Mercury-versus-LED.pdf



Spectral Coverage

- Up to 16 discrete channels in single unit
- Choose from broad spectrum



The CoolLED Amora Series

Combines proven off-the-shelf products with unparalleled customisation options

SPECTRAL
COVERAGE

LIGHT
DELIVERY

CONTROL &
CONNECTIVITY



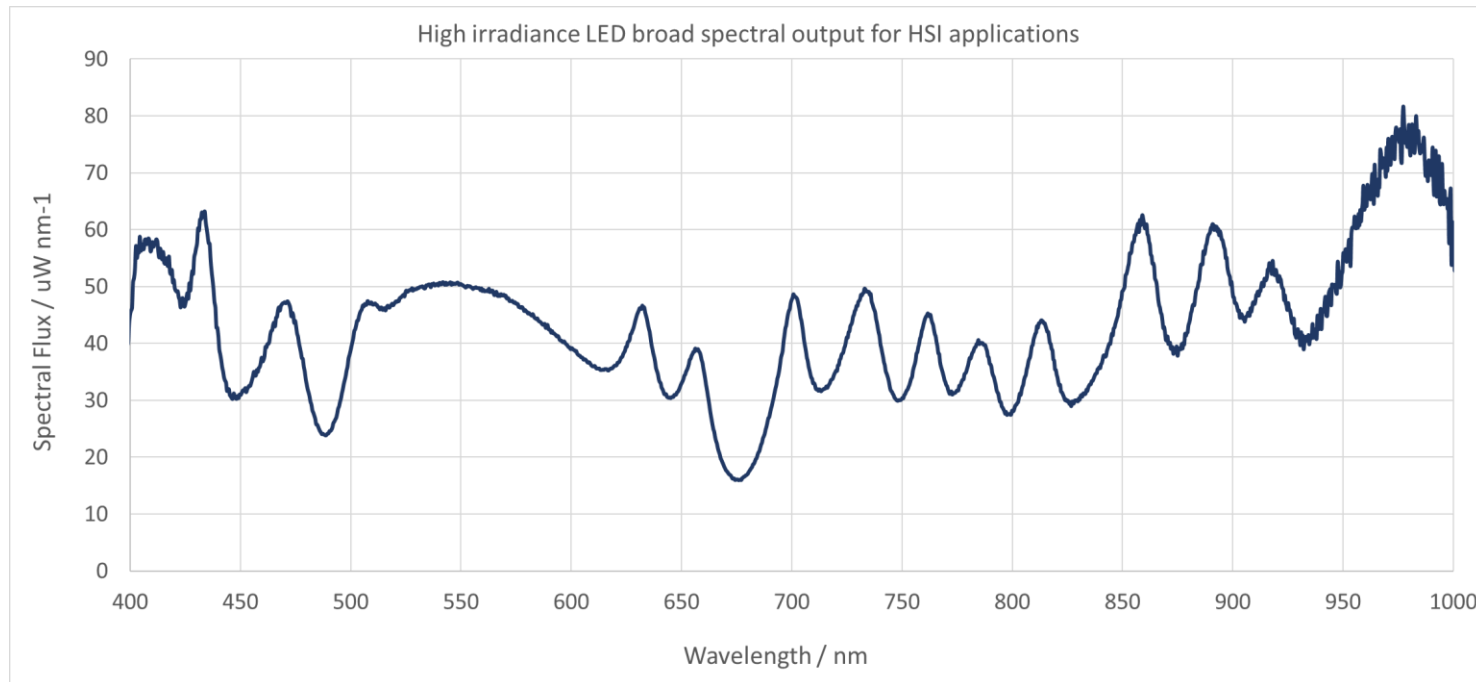
PERFORMANCE
CRITERIA

COMPLIANCE &
CERTIFICATION

CoolLED 
Simply Better Control

New cutting-edge developments in illumination

- Continuous, unbroken spectral output from 400-1000nm and 950-1700nm.
- Applications in bio-imaging using HSI cameras.



About CoolLED

- **Market leader in generation and delivery of stable, high-power LED illumination for microscopy**
- **Introduced the first commercially available LED Illumination System for fluorescence microscopy in 2006**
- **Founded as spin-off from an industrial and academic partnership at the University of Southampton**



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Thank You!

CoolLED
Simply Better Control

