X-Cite®
Fluorescence Illumination • In Control

Why Switch from Lamp to LED?

Stability

- No flicker
- No warm-up time / delay
- Slower intensity degradation over time
- Better than 1% stability without active feedback control
- Better repeatability than arc lamps

Power

- LED (X-Cite XYLIS™ II) now matches the optical output of a lamp!

Lifetime

- >20,000 hours

Phototoxicity

- Preliminary studies have shown that cells proliferate better and show less photoxicity after imaging with a LED system vs. a mercury lamp

Electrical Consumption

- 69% less than mercury lamps
- LEDs do not run continuously and can be turned ON and OFF instantaneously

Cost of Ownership

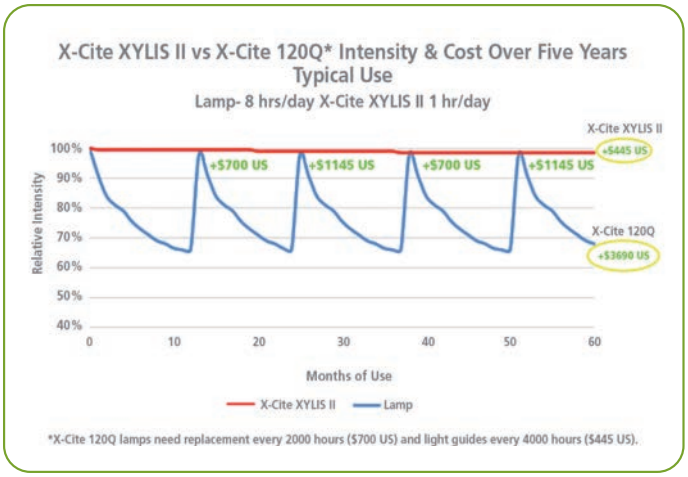
- Reduce operating costs by $1700/year!
- Savings on replacement lamps, light guides, electricity

Green

- Zero mercury
- Reduce energy consumption by 84%

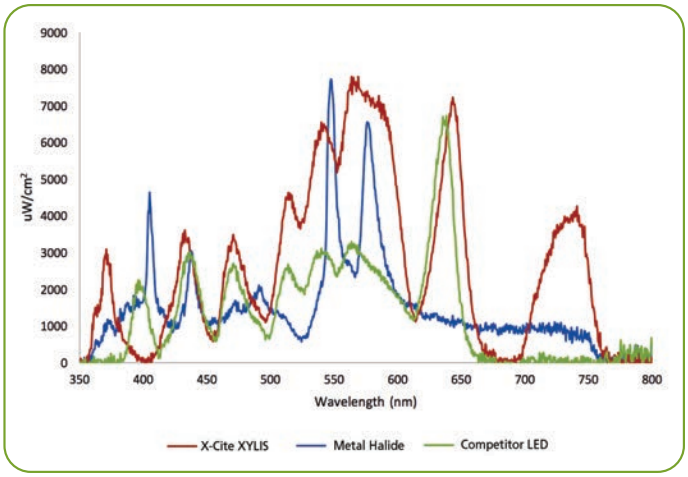
EXCELITAS TECHNOLOGIES®

Intensity Over Time - Typical Use

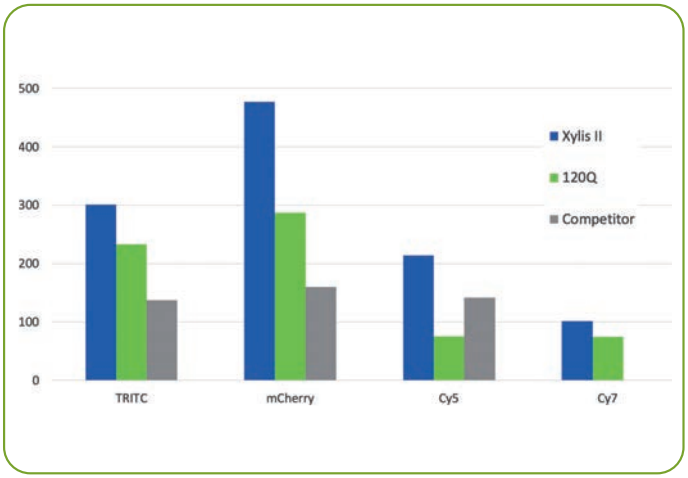


*X-Cite 120Q lamps need replacement every 2000 hours ($700 US) and light guides every 4000 hours ($445 US).

Lamp, X-Cite XYLIS II & Competitive LED Spectra Chart



X-Cite XYLIS II Compared with X-Cite 120Q and Competitor



Cost of Ownership (per 20,000 hours of "ON time")

	HBO	X-Cite 120Q	X-Cite XYLIS II
Replacement Lamps	100	10	-
Mercury Content	1100 mg	200 mg	-
Lamp Costs	$15,000	$7,000	-
Replacement Light Guides	-	5	2
Light Guide Costs	-	$2,225	$890
Bulb Disposal ($5/bulb)[1]	$500	$50	-
Maintenance Costs (bulb, $20/hr)[2]	$1,000	$17	-
TOTAL	**$16,500**	**$9,292**	**$890**
Hourly Cost[3]	**$0.825**	**$0.465**	**$0.045**
Annual Cost[4]	**$1,650**	**$929**	**$11**

Notes:

1. Mercury-Free Microscopy white paper: www.mygreenlab.org.
2. Assumes 30 min to change/align HBO lamp, 5 min for X-Cite 120Q.
3. Assumes 8 hour day, 4 x 15 min imaging sessions. Arc lamps left on for the day and LEDs on continuously during each session.
4. Assumes a 5 day week x 50 weeks.
5. Calculated based on published technical specifications.
6. Typical rate. Actual rates will vary by region and/or time of day.

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