



Luminus Introduces CFT-50X Series LED Product Line for Medical, Life Sciences, and Industrial Applications
Comprehensive portfolio offers exceptional performance across the entire visible spectrum

SUNNYVALE, Calif., May 6, 2025, [Luminus Devices](#), a global leader in LED technology, announced the launch of its new CFT-50X Series, an extensive product line of high-performance LEDs designed specifically for medical, life sciences, and industrial applications. The new series offers unprecedented versatility with 10 distinct SKUs spanning from UVA (405 nm) to Red (638 nm), meeting the demanding requirements of medical endoscopy, biophotonic, fluorescence microscopy and machine vision markets.

"The CFT-50X Series represents a significant advancement in LED technology for critical applications that require high optical power, precise spectrums, and exceptional reliability," said Yves Bertic, Senior Business Line Director at Luminus. "Designed with a long product lifecycle of over 10 years, these LEDs deliver the consistent performance and durability that medical and industrial applications demand."

Key Features of the CFT-50X Series:

- **Wide wavelength selection:** Ten spectrums are currently available and specifically tailored to excite most of the fluorophores / dyes used in life science and research markets. New spectrums, especially in the deep red and near infrared regions will be added in the coming quarters.
- **Optimized Coupling Design:** 5mm² square emission area for optimal coupling into 2-4mm diameter fiber bundles, with monolithic emission area for efficient coupling in smaller fibers
- **Superior Performance:** High drive current operation up to 4A/mm² DC and 6A/mm² in pulsed mode with excellent peak wavelength stability over current and temperature variations
- **Robust Construction:** Isolated metal PCB with excellent thermal resistance, featuring automotive-grade connectors with lock-in mechanism for secure connections
- **Versatile Configuration:** Compatible with high-voltage/low current operation to meet diverse application requirements

The product line includes specialized variants for different applications, including UV (405-415 nm), Deep Blue (440 nm), Blue (460 nm), Sky Blue (470 nm), Green Display (528 nm), Green Medical (560 nm), Amber (600 nm), and Red (632 nm). The series also features white light options with both standard (65 CRI) and high color rendering (92 CRI) capabilities.

All CFT-50X Series products share a common thermally-efficient compact footprint (26.50mm x 18.00mm) and feature an automotive-grade 10-pin connector with high current carrying capability and lock-in design, simplifying integration into existing and new system designs.

The CFT-50X Series is now available through authorized Luminus distributors. For detailed specifications and additional information, please visit www.luminus.com or email sales@luminus.com.

About Luminus Devices

Luminus Devices develops and markets solid-state lighting solutions (SSL) to help its customers migrate from conventional lamp technologies to long-life and energy-efficient LED illumination. Combining technology originated from the Massachusetts Institute of Technology (MIT) with innovation from Silicon Valley, Luminus offers a comprehensive range of LED and laser solutions for global lighting markets as well as high-output specialty lighting solutions for performance-driven markets including consumer displays, entertainment lighting and medical applications. Luminus is headquartered in Sunnyvale, California. For additional information please visit <http://www.luminus.com>.

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