



CREATING ULTIMATE DESIGN FREEDOM IN LIGHTING

ChromaLit™

INTEMATIX

Meet ChromaLit™

our groundbreaking light source collection.



Major benefits the LED industry will experience:

Design Freedom
Light Quality
Process Efficiency
System Efficacy

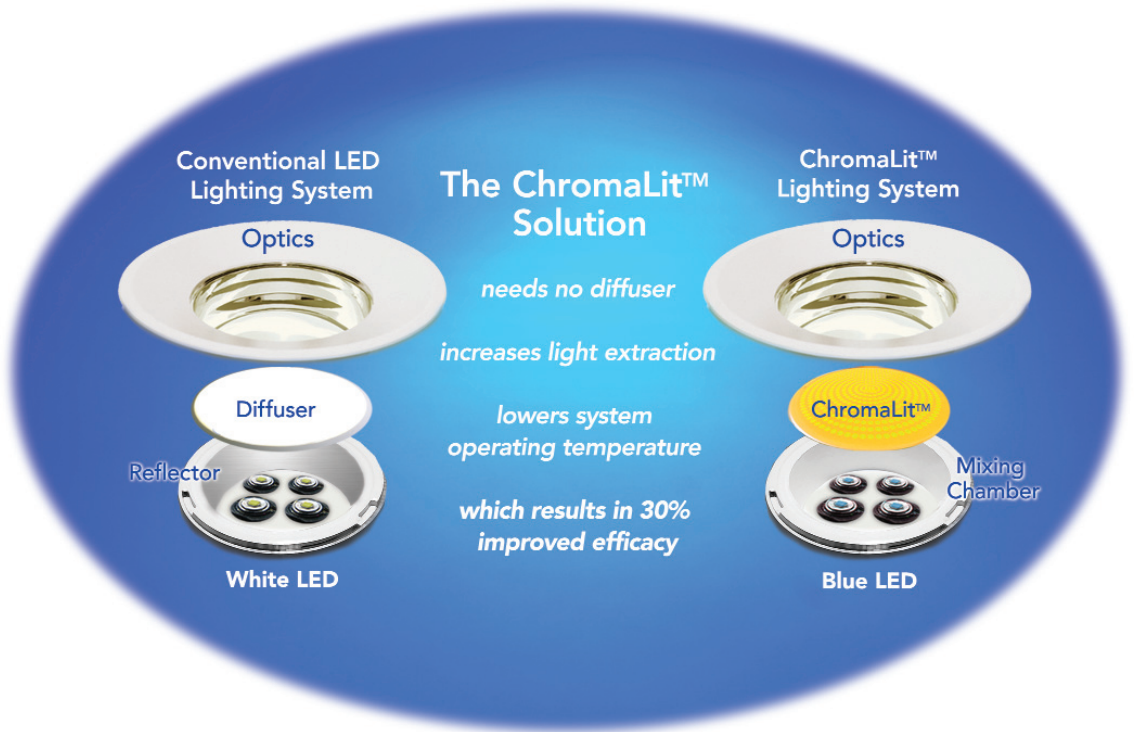
The Intematix ChromaLit remote phosphor light source will change the way you approach solid-state lighting design. ChromaLit offers beautiful light quality with unprecedented design freedom, color control, system flexibility and efficiency. ChromaLit is ideal for the most efficient and innovative lighting system designs.

ChromaLit can be used with any brand of blue LED as well as other SSL applications including OLED, blue lasers and future technologies.

Any shape and any color.

Intematix ChromaLit

ChromaLit leverages a phosphor composite precisely layered onto a substrate, separated from the blue LED energy source. The independent phosphor emits light when excited by blue light. Because the phosphor has been separated from the energy source and can now be made in any shape and any color, unidirectional light, hot spots, inconsistency and design limitations are no longer SSL challenges.



Unprecedented Design Freedom

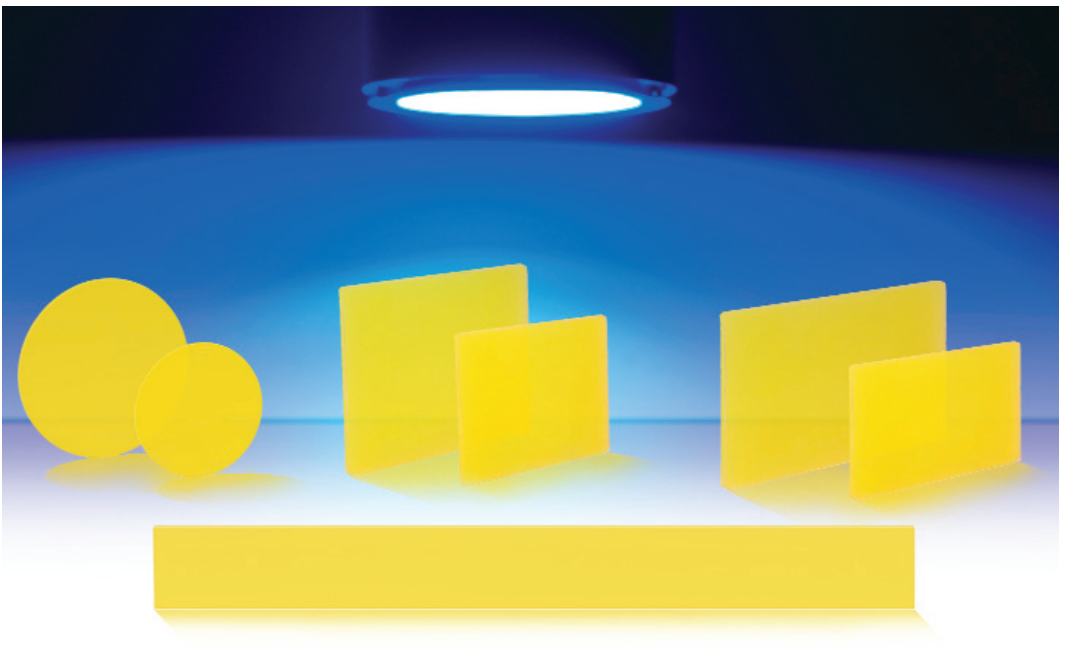
The ChromaLit collection implements precision optics manufacturing and Intematix's cutting-edge phosphor technology to provide lighting manufacturers with the capability to create previously unimaginable lighting systems in any shape and any color. Completely customizable in geometry, color temperature, CRI and substrate material, ChromaLit products offer flexibility and creative opportunities never before seen in luminaires. Uniform, curvilinear and three-dimensional lighting designs are now made possible where challenges existed with conventional LED approaches.

Glare free and consistent light.

Brilliant Light Quality

Design with ChromaLit to harness a glare-free, diffuse light source and create consistent, high-quality light across multiple fixtures. Unique patterns enhance color rendering, and Intematix's proprietary technology enables stable phosphor performance over the module's lifetime and color-consistent, uniform luminaires.

Range of ChromaLit Options

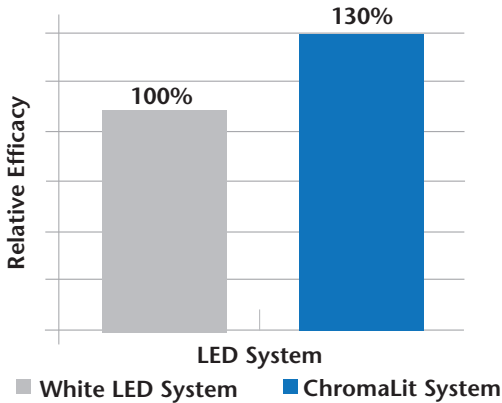


Process Problems Solved

The interchangeability of ChromaLit simplifies binning management and reduces inventory of luminaires of wide spectral range. ChromaLit systems easily achieve multiple color specifications without replacing the entire luminaire. One standardized LED energy source can power multiple CCT, CRI and R9 requirements by simply replacing the ChromaLit, so one blue LED energy supply can be stocked alongside compact and easily swappable ChromaLit. As blue LEDs continue to improve in efficacy, the same ChromaLit can be easily integrated into new systems.

30% higher system efficacy.

System Efficacy Improvement



** Results vary based on reference design*

Unparalleled Lifetime Efficacy

ChromaLit offers up to 30 percent higher system efficacy than conventional LED lighting systems by operating at a lower temperature, maximizing photon extraction and removing the diffuser. By relocating the light production process away from the energy source, the ChromaLit architecture produces significantly more light per input power, increases LED package lifetime and reduces LED chip junction temperature. ChromaLit system designs can take advantage of fewer LEDs, smaller heat sinks, higher LED drive currents and reduced energy usage.

Contact a sales representative to request a demonstration kit and full product details.

Future Possibilities

Our labs are continually developing new materials and improved processes. In the future, these advances will bring:

- Improved optical control
- Extended color temperature and CRI options
- Diverse environmental viability
- Specified shapes and sizes

Get in touch with us to learn more about what is coming or how ChromaLit can optimize your next project.



ChromaLit 360

Intematix Corporation

Intematix Corporation is a materials development innovator, providing customizable, patented phosphors that serve as the foundation for high-quality, energy-efficient LED light. Intematix products enable attractive, vivid color quality, superior consistency, uniformity and stability. Headquartered in Fremont, California, Intematix maintains R&D, manufacturing, business and support operations in the United States, Asia and Europe.

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ChromaLit's Wide Range of Applications