

Why Relume?

THE MOST ADVANCED TECHNOLOGY ON THE PLANET.

Brighter

Heat is the enemy of LED light output. Luminous output



declines 1% for every 1°C (1.8°F) increase in temperature. Simply put, cooler LED's are brighter! Our patented Silver Circuitry™ design virtually eliminates the heat generated by the LED thus allowing for maximum Luminous output!

Lasts Longer

Heat is also the enemy of LED Lifespan. The lifespan of an LED is cut in half with every 17°C (30°F) rise increase in temperature. Our patented Silver Circuitry™ is 95.5% pure silver, plated onto an aluminum heat-sinking substrate and virtually eliminates the heat generated by the LED. Cooler LED's last longer!



Costs Less

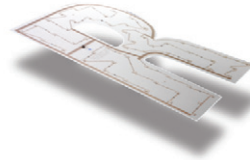
Our patented Silver Circuitry™ saves you money in three ways: 1) **Production:** our silver circuitry costs substantially less to manufacture.

2) **Installation:** custom panels are assembled at our factory which virtually eliminates standard on-site labor costs.

3) **Operation:** circuitry that runs cooler burns brighter and lasts longer. And best of all, our panels cost less than traditional LED modules.

'Plug & Play'

Imagine an LED panel that fits any NEW or RETROFIT existing application within minutes.



No special tools or equipment are required. No clips, no two-way tape. No wire splicing. No end caps. Relume light engines arrive at the site ready to "plug & play." A true cost-saving, custom solution!

7 Year Warranty for Repeatable Signage Programs

Maintenance costs are virtually eliminated. Relume stands behind its repeatable program signage products by offering a 7-year warranty on our patented Silver Circuitry™ Light Engine Panels and a 5-year warranty on our power supplies. Our warranty is unmatched in the industry.



UP TO 90% ENERGY SAVINGS OVER INCANDESCENT 50% OVER NEON LIGHTING.

PATENTED:

Silver Circuitry™

LEDs have significant advantages over neon and incandescent lighting. Heat significantly degrades lumen output and useful life. Competitors solder their LEDs to a metal circuit board or clip to cabling thereby retaining the significant heat generated by the diode.



Patented Silver Circuitry™ Revolutionizes LED Lighting Industry

Our Silver Circuitry™ is 95.5% pure silver, plated onto an aluminum heat-sinking substrate. LEDs are bonded to it using the same silver epoxy that LED manufacturers use to bond the LED diode to the LED leads. This design maximizes the extraction of heat from the diode through the leads, then through the circuit to the aluminum substrate, through the back of the housing and into the outside air.



Relume's patented Silver Circuitry™ design virtually eliminates the heat generated by the diode. No other LED light engine provider can make that statement.



Patent Number 6,582,100 B1 Patent Number 6,428,189 B1
 Patent Number 6,045,240 Patent Number 5,857,767
 Patent Number 5,785,418 Patent Number 5,783,909
 Patent Number 5,782,555.

THE INDUSTRY **LEADER** IN LED INNOVATION

At Relume Technologies, we don't make LEDs.
We make LEDs Burn Brighter and Last Longer. Here's proof:

Standard Printed
Circuit Board

Upgraded Metal
Core-Board

Relume
Silver Circuit™



WE DON'T MAKE LED'S, WE MAKE LED'S BURN BRIGHTER AND LAST LONGER.

The Thermocouple Test: *the proof of our patented technology.*

Shown above is a standard industry thermocouple test panel that shows the effects of LED generated heat on three different substrates. The three circuits being tested are a standard printed circuit board, an upgraded metal core circuit board and a Relume Technology Silver Circuit™.

All three circuit boards start at a room temperature (75 F degree) before the panels are turned on. After a few minutes the standard circuit board temperature rises 198 F degrees, the upgraded circuit board temperature rises 57 F degrees, but the Relume 'Silver Circuit'™ design rises just 14 F degrees.

**Cooler LED's
Burn Brighter,
Last Longer &
Cost Less!**

The photograph also clearly illustrates the difference in LED brightness in the three tested circuit boards. Relume Silver Circuitry™ prevents heat build-up and degradation generating long term savings.

Only Relume Silver Circuitry™ extracts the heat efficiently. This means that Relume customers can maximize brightness, lower costs and enjoy longer lasting LED panels.

