

THE RIGHT SOURCE

AT THE RIGHT TIME

For the first time in human history, a light source has the potential to generate more light than heat. The benefits derived from this advancement cannot be overstated. Not since the illuminated world evolved from the oil lamp to the electric filament, have we been on the brink of such a quantum shift in our relationship with light.

ARE WE READY TO CHANGE?

The source that makes this evolution possible is a Light Emitting Diode (LED). LED's are efficient, electronic sources that convert electricity into light. There is nothing particularly special about them. LED's have existed for decades but their adoption into general illumination has been painfully slow. That is because an LED is only part of the equation. Unfortunately, excitement about this source has resulted in many poorly designed fixtures that failed to deliver as promised. We created BKSSL to focus on the unique design requirements of solid state lighting and to integrate these systems into effective lighting products – fixtures that are available today and that actually perform as advertised.

LED vs. SSL

If LED's are the source, then Solid State Lighting (SSL) is best defined as the fully integrated system that delivers useful light. To be in the LED lighting business is to completely miss the point. As an innovator in the industry, we are committed to the business of Solid State Lighting.

As defined, solid state lighting is a vertically integrated, digital system (see diagram). While LED's themselves offer several well known benefits (among them, long life, color saturation, and low voltage operation) **without heat control, none of these benefits are possible.** Effective Thermal Management is the most critical design element to a solid state system, not only for component longevity but also to ensure light output.

THERMAL MANAGEMENT

Because our fixtures are machined from metals, they are inherent heat sinks. This allows our lighting system to operate at low temperature without the use of expensive add-on components. In short, B-K Lighting and Teka Illumination manufacture solid state lighting products just like every other fixture we produce. Since the process is the same and nothing is added, thermal management is seamless.

CONTROLLING THE ELEMENTS

All B-K Lighting and Teka Illumination products are completely sealed to isolate the interior of the fixture from the outside environment. For decades, controlling internal moisture and eliminating dirt and debris from the maintenance equation have been our trademarks. Because solid state lighting is a digital system, any of these contaminants will render the fixture inoperative. Through innovative technologies like our patented Anti-Condensation Valve (ACV™), factory-sealed lenses, and 360HD™, our water-tight, patented knuckle system, B-K Lighting and Teka Illumination remove these variables from the design equation.

CHOOSE THE SOURCE

The benefits to solid state lighting are far reaching and have been highlighted on the the next few pages. In the end, lighting design equates to choosing the right source for the task. BKSSL products eliminate all of the secondary guesswork, liberating your design possibilities. They are the right source for today's applications.

