



e

e-light  
high efficacy  
LED performance

## Enabling up to 165 ll/cw

LED technology is continually advancing, yet there are very few step changes in this evolving technology. The next generation e-light LED represents a major breakthrough in the development of high efficacy mid power LEDs. This is one of the few major changes in how LEDs are structured since the inception of the technology over 10 years ago.

### How does the technology work?

This methodology is called 'Flip Chip' and is becoming more widely adopted in the lighting industry due to its recognised improvement in performance.

But as with all advances in technology, there are varying levels of quality and implementation. Our e-light LED takes the flip chip technology to the highest level by optimising the extraction of light out of the LED; utilising a highly reflective base and unique architecture to focus the light out.



Epi Up LEDs use a bonding wire, which is prone to manufacturing issues and environmental contaminants



First generation Flip Chips typically have reduced package sizes but increased angle in direction of light resulting in poor light extraction



The e-light LED has a highly reflective base and unique architecture to further increase direct light output and drive even higher efficacy.

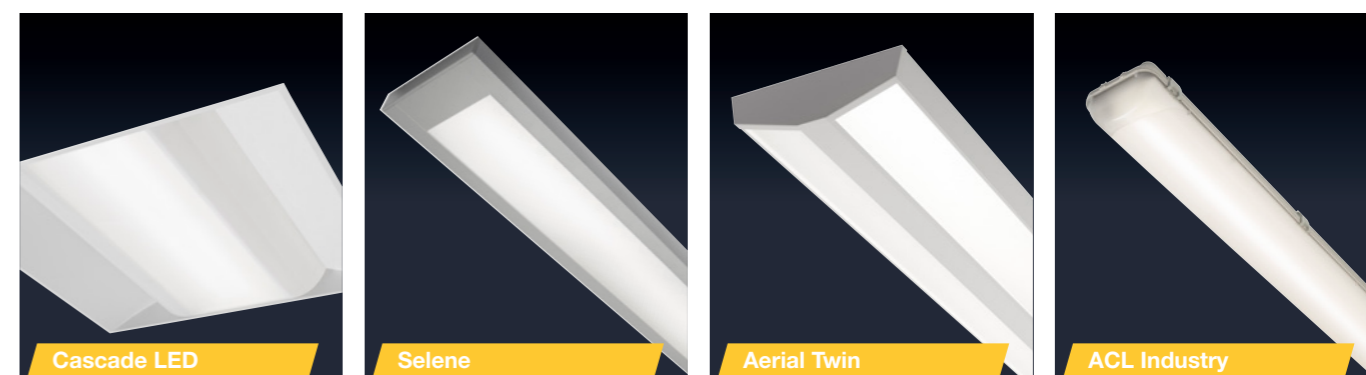
The new e-light LED comes as an option on a range of luminaires and increases efficacy typically in excess of 15%, resulting in lower energy usage and ongoing savings over the life of an installation.

### e-light in action

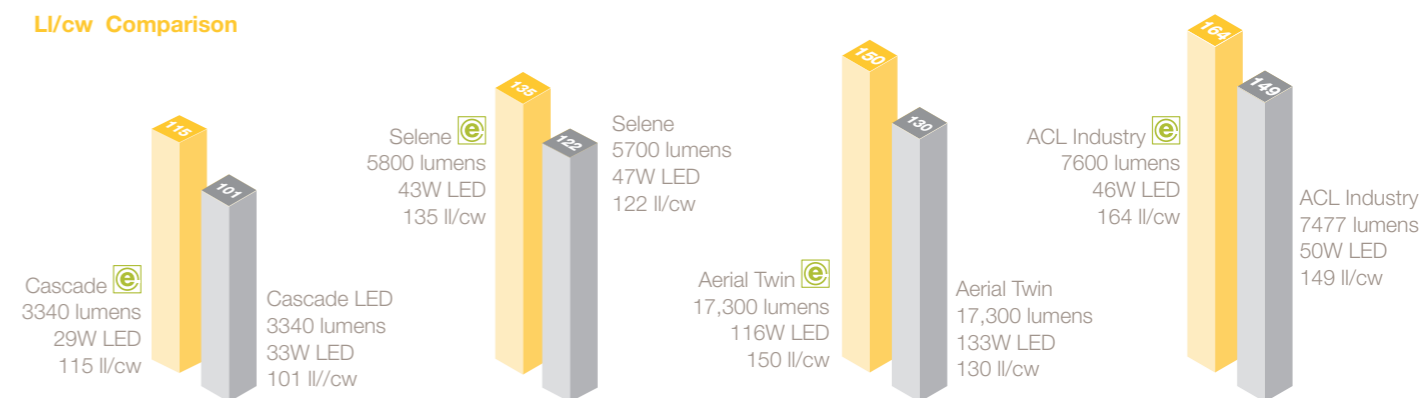
The e-light LED is available on a range of luminaires, all of which will deliver significant upgrades in energy efficiency, whether used in commercial, education, healthcare or retail environments.

All of these e-light luminaires have been developed to further reduce energy consumption to bring energy savings throughout the life of an installation, resulting in significant long term financial gains and reduced carbon footprint. This is achieved without compromising lighting quality or performance ensuring compliance with all regulatory standards.

Below are a selection of luminaires employing the e-light LED, illustrating the typical potential energy savings when using this new technology.



### lm/cw Comparison



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