

Your night sky should look like this.



StarFriendly® Lighting

Our lighting technology makes every lumen count.™

Since 2011, C&W Energy Solutions has been a pioneer of the commercial LED and lighting industry. After years of experience, we can provide an unparalleled level of quality and expertise—both in business practices and technical knowledge. From **garages** and **streetlights** to **commercial buildings** and **airports**, our technology can solve any outdoor lighting problem imaginable. With an emphasis on **eco-friendliness** and **energy efficiency**, we strive to create lighting solutions that effectively illuminate your night while reducing the environmental impact and maintaining a dark sky.





Baby sea turtles & other wildlife
use light to navigate. **Artificial
lights threaten their survival.**

StarFriendly® Lighting

Ten years ago, the focus of our company was protecting the night sky over the Big Island of Hawaii. Since then, awareness of the impact of new, artificial lighting on the environment has exploded. Our technology employed initially for a specific purpose has expanded into multiple environmental disciplines. Field studies have emerged with different objectives, such as light pollution, food pollination, endangered species conservation, and human impact. Some of the new and exciting areas of research include nocturnal insects in the Amazon and baby turtles along the North American coast.

Our **StarFriendly®** series of lighting are not only **Dark Sky Compliant**, but part of a long-term, environmentally sustainable solution to lighting.



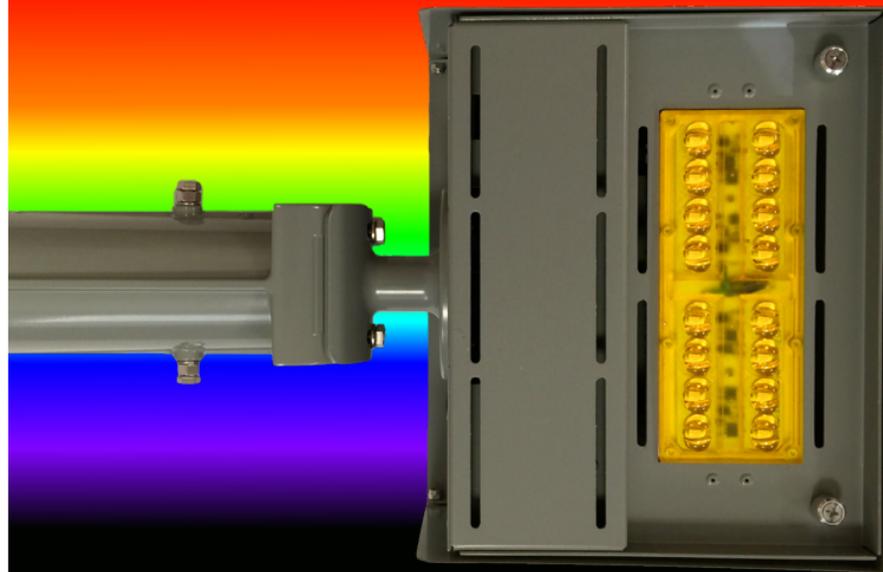
CONTROLLING BLUE LIGHT

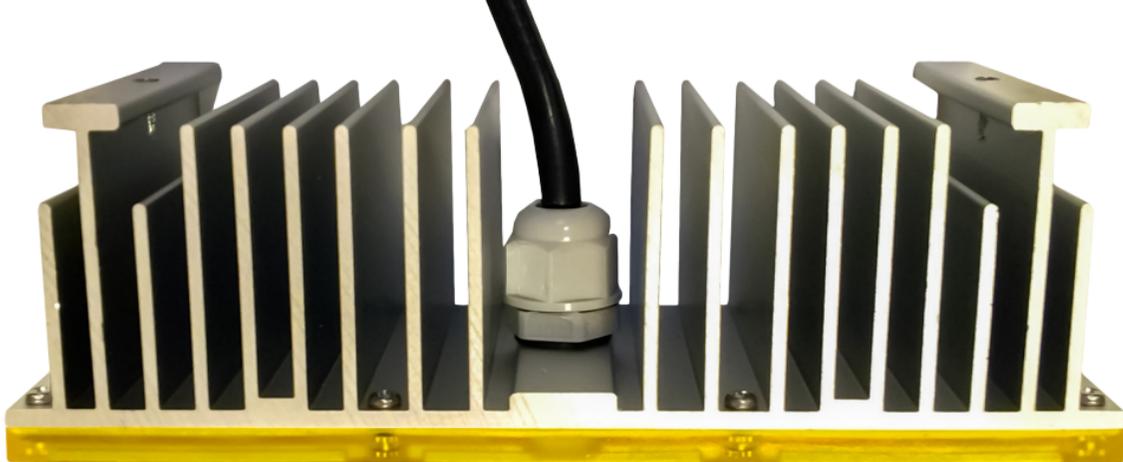
“Blue light” refers to a specific wavelength within the spectrum of visible light that appears blue or violet, and produces higher amounts of energy. However, the use of blue lights in LEDs come at a significant cost to humans and wildlife alike—frequently compromising human eyesight in night driving or flying. For applications where blue light suppression is needed or preferred, we have successfully reduced the blue light content of our LEDs to less than 1%. By controlling the light spectrum, our lights reduce the glare of street lights without losing any visibility.

FOXCONN MANUFACTURING

Foxconn is the manufacturer for some of the most valuable brands in the world, including mega brands like Apple, Sharp, and Sony. With the quality demands of these organizations, Foxconn produces products to the highest standards. Their large engineering and manufacturing staff allows for unique innovation of technology across the board on all products associated with their name.

Our LED's have ultimate control of the spectrum.





CWES 216 AC DRIVERLESS ENGINE

**THE WEAK LINK IS GONE...
NO MORE DRIVER / POWER SUPPLY**

We have designed circuits that allow the direct input of power without the use of a separate power supply. By removing this most common failure mechanism of LED luminaires, maintenance cost will be reduced and lifetime lengthened. A unique advantage of this technology is to expand the operating temperatures of these luminaires from -100C to +80C. Our products are manufactured by Foxconn, known for producing Apple products, providing reliably high standards of quality.

SEMI-CUSTOMIZABLE: CHOOSE YOUR OPTIONS

VOLTAGE

120V 220V 240V 277V 347V

WATTAGE

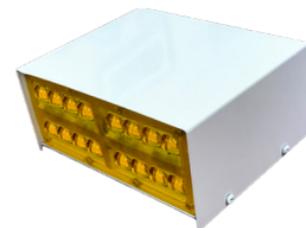
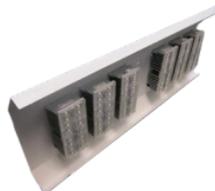
2000K 2700K 3000K 4000K 5000K

FILTERS

YL OR TR WR

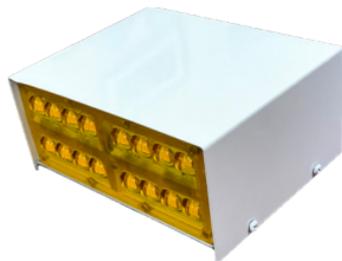
OPTICS

2M 4T 2V 5W
5M 5V 22





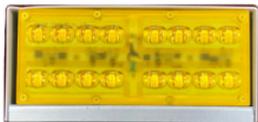
THE WEDGE
WWP



THE BRICK
WRP



THE HALF-MOON
ODO



WALL PACKS

- » Decorative shapes designed to fit a single engine
- » Dual-engine design available for "The Brick"
- » Full cut-off, "Dark Sky" compliant
- » Standard color is bronze, with black, white, or gray also available at no extra charge
- » Custom colors available to match your project



THE SLANTED
SL SERIES



THE SHOEBOX
SB SERIES



THE CEILING MOUNT
SB SERIES



STREET & PARKING LOT

- » Classic slanted and square shapes designed to fit various configurations, from 1 to 6 engines
- » Ceiling mount shoebox can fit from 1 to 4 engines
- » Full cut-off, "Dark Sky" compliant
- » Standard color is bronze, with black, white, or gray also available at no extra charge
- » Custom colors available to match your project



RETROFITS

- » Custom-fit size based on the dimensions of fixture
- » Paint can be custom-matched
- » Light levels tailored for specific locations and projects





BAY LIGHTS

- » Streamline design can fit between 2 and 6 engines
- » Emergency light feature available
- » Standard color is bronze, with black, white, or gray also available at no extra charge
- » Chain mounted

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