



# Cree® Upgrade Kits: Your Canopy Lighting Advantage

## 227 Series™ Recessed Upgrade



Retrofit with Cree and achieve easy installation, significant energy savings and exceptional targeted illumination. Specially designed for the petroleum market, 304 Series™ and 227 Series™ LED canopy luminaires feature patented NanoOptic™ technology that delivers exceptional lighting performance with full cutoff while using considerably less energy than traditional metal halide fixtures.

Cree upgrade benefits include:

- Rated application life up to 150,000 hours
- Up to 80 percent energy reduction compared to metal halide technology
- Dramatically improved light levels
- Virtually maintenance-free performance

For new construction and remodels, achieve a clean, updated appearance with Cree recessed or surface-mount options in two product categories:

## 304 Series

304 Series LED luminaires can be configured to achieve 100+ lumen-per-watt performance and offer an optional integrated multi-level sensor for timed reduction of light levels, further lowering energy use. The 304 Series LED recessed canopy luminaires are ideal for single- or double-deck open-air canopies and building soffit applications.

*Available in 40- and 60-LED configurations for installation in 16-inch decks.*

## 227 Series

227 Series LED canopy luminaires, available from 30- to 120-LED configurations, increase visibility and safety below canopies and around convenience store perimeters. The 90- and 120-LED luminaires are ideal for areas requiring high luminance levels.

*Available in 30-, 60-, 90- and 120-LED configurations for installation in 12- and 16-inch decks.*

### Testing & Compliance

- IDA-Approved Dark Sky Friendly
- IP rated for use in intended environment
- IES BUG ratings available
- Photometric testing to IESNA-79-08 standards
- U.S. and international patents granted and pending

### Premium Protection

We back our quality products with one of the best warranties in the industry. Our 5 • 5 • 10 warranty provides a five-year limited warranty on the LED product and driver, a five-year limited warranty on the LED, and a 10-year warranty on our DeltaGuard® finish.

### Manufacturing Excellence

Proudly manufactured in Sturtevant, Wisconsin, BetaLED products are made in the USA of US and imported parts and meet the Buy American Act; Section 1605 of the American Recovery Reinvestment Act (ARRA).

Environmentally Responsible  
Cree offers a number of environmental advantages over other types of lighting. Our luminaires are lead-free, mercury-free and meet Restriction of Hazardous Substances (RoHS) regulations.

# Get Dramatic Results from a Cree® Upgrade

BEFORE



AFTER

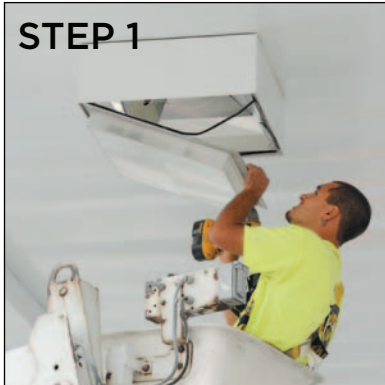


Portland, Oregon Shell station saves 76% in energy use with Cree 304 Series™ upgrade.

Before: HID 2x2 surface-mount fixtures consuming 455 total system watts. After: Cree 304 Series™ LED fixtures consuming 108 total system watts.

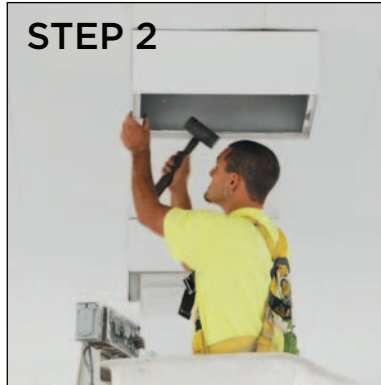
## Six Easy Steps to a Cree Surface Mount Upgrade Installation

STEP 1



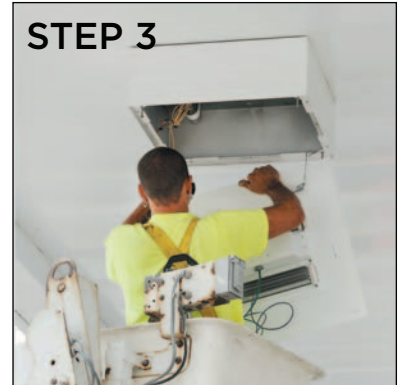
Remove existing HID lens, reflector, and internal components.

STEP 2



Add new corner mounting brackets.

STEP 3



Hang new retrofit panel with 304 Series LED fixture and connect wires.

STEP 4



Insert retrofit unit into existing 2x2 box.

STEP 5



Tighten down four corner screws.

STEP 6



Wipe down new Cree fixture.

### Cree Upgrade Options for 227 Series™ and 304 Series™



#### Surface Mount Upgrade Kit

For converting surface-mount HID luminaires to LED technology, use existing 2-by-2 housing with Cree 30- to 90-LED luminaires.



#### Recessed Upgrade Kit

A rectangular plate is pre-cut to accommodate Cree 30- to 120-LED recessed luminaires for a flawless fit without exposed hardware.