



2.5 inch can height fits in 2x4 construction or larger

## ADVANCED LED DOWNLIGHTS

The Advanced LED Downlights project takes downlights in a whole new direction — up! The LCF project partners developed a dimmable downlighting system based on indirect optical design that reduces glare, decreases installation time, averages LED color variations and improves thermal management.

The Advanced LED Downlight has a single central power supply that can control up to ten lights. Each fixture consumes approximately 16 watts. Low voltage wiring between the centralized power supply and the downlights allows for simplified wiring and low-cost installations. The central power supply architecture allows for expandability for additional downlights as well as other LED fixtures, such as under-cabinet lighting.

The integrated crossblade heatsink and trim places the LED sources in a conditioned environment where the LEDs can be more effectively thermally managed, thus increasing output and life.

<b>Lumen Output</b>	640 lumens*
<b>System Efficacy (Lm/W)</b>	40 Lm/W*
<b>CRI</b>	~84
<b>CCT</b>	3000K
<b>Life Hours (L70) Rating</b>	50,000 hrs*
<b>ENERGY STAR Compliant</b>	Yes
<b>Cost Range</b>	\$110 per unit
<b>Annual Cost Savings</b>	\$50–60
<b>Labor Cost</b>	Lower than average downlight cost

### Applications:

Residential: Kitchens, hallways, bathrooms

Commercial: Corridors, conference rooms, break rooms, public areas

Hospitality: Restaurants, corridors, lobbies

### Collaborators:

Architectural Energy Corporation

California Lighting Technology Center

\* The numbers listed here are projected specifications for this technology and based on current demonstrations. Specifications may change upon further development of this product.

Lighting California's Future is a \$3.7 million California Energy Commission Public Interest Energy Research (PIER) Program focused on lighting technologies for buildings. The program, which is managed by Architectural Energy Corporation, includes nine technical projects with a cross-cutting market connection program.

The goal of LCF is to meet California's growing needs for energy efficiency and demand response by creating and introducing energy-efficient, advanced lighting technologies.

