



## OVERVIEW

Rachel Oates Dentistry of Franklin, Tennessee was seeking to dramatically improve the lighting look and feel for their clinic. Reducing energy cost for lighting and eliminating maintenance expenses for old fluorescent fixtures was critical. Additionally, it was essential to have the Kelvin (color) of the lighting in procedure rooms seamlessly match the natural daylight and Kelvin of the specialty dental equipment lighting. Achieving these goals resulted in increased acuity as well as reduction of eye strain and headaches for the dental staff.

## CHALLENGE

- Improve lighting levels and match Kelvin with natural light from large windows
- Use fixtures that are easy to clean and keep sanitary
- Cut energy consumption by 50%
- Cut maintenance expense by 90%



## SOLUTION

- Complete LED retrofit and replacement of the dental office
- Install cutting edge fixtures across the dental office, including the waiting area, exam areas, work rooms and offices
- Install dynamic controls to manage the lighting levels throughout the day to save energy and highlight space when needed

## RESULT

- Energy consumption reduced by 60%
- Maintenance expense reduced by 95%
- Consistent Kelvin from natural window light, dental equipment and ceiling lights
- Dramatically improved light levels around the entire office
- Enhanced comfort level of patients and workspace for dental providers

## The Helios Energy Impact

Enhanced client image, improved task lighting and increased employee morale

10-year energy savings –  
**\$9,850**

10-year maintenance savings –  
**\$10,127**

Total 10-year savings –  
**\$19,977**

**14,692.8 lbs.** reduction in CO2! Equivalent to removing **1.4** cars from the road per year, or not burning **749.4** gallons of gas per year!