



## General Motors

### Bowling Green, Kentucky

#### Facility Upgrade

**Problem** To reduce energy usage and resulting utility costs while minimizing capital investment.

**Resolution** To design and implement a energy efficient lighting upgrade at the Bowling Green Corvette plant.

**Project Description** The Optimira team designed the upgrade to improve the working environment, replace old lighting technologies with standardized lighting materials, reduce maintenance overhead, and alleviate utility costs.

Lighting levels were evaluated at each area of the plant to ensure that all areas met the lighting standards set by the Illuminating Engineering Society of North America (IESNA).

Optimira provided the following services to achieve the energy reduction costs:

- ▶ Fulfilled the role as project manager for the project
- ▶ Upgraded over 11,000 fixtures during a two-month installation process
- ▶ Financed the entire project; zero investment was needed from General Motors



**End Result** Optimira implemented a project design for the 1.0 million square foot facility that yielded a \$513,752 savings. Specifically, lighting levels were increased from 10-15%, reducing energy costs by 35%. The overall project was funded from the savings achieved within the existing utility budget. The project was delivered under budget and ahead of schedule.