



Street Lighting Retrofits

City of Brea street lighting is divided into the following categories:

- ◇ Residential neighborhoods, some with themed fixtures
- ◇ Commercial Developments
- ◇ City Streets (main and intermediate roadways)

Benefits of Retrofitting Included: Replaced high pressure sodium HPS cobra heads and fixtures. **Induction technology** was chosen over LED.

- ◇ Better visual acuity
- ◇ Greater lumen output per watt of power input
- ◇ Better IES (illuminating Engineering Society) light distribution (e.g. higher recommended fixture roadway spacing)
- ◇ Higher average luminance
- ◇ Significantly improved concentration of light source
- ◇ Better NEMA (National Electrical Manufacturers Association) luminaire efficiency rating
- ◇ 10-year component warranty

Exterior Street Light Upgrades Totals:

- ◇ Along City Roadways - 3,157 cobra head pole mounted fixture replacement savings:
 - 871,892 kWh
 - \$71,150 annually
- ◇ Within Residential Neighborhoods - 1,003 decorative fixtures replacement savings:
 - 285,502 kWh
 - \$23,298 annually