

OVERVIEW: Current County Streetlighting Technology

August 2017

Background

Out of 19,000 streetlights, Arlington County owns approximately 7,350 streetlights. The County started a streetlight upgrade program to change high-pressure sodium (HPS) streetlight to more energy efficient and environmentally-friendly LED streetlight products. Currently, there are two types of LED streetlights in the County: carlyle and cobra.

Carlyle LED

- Decorative in nature and appropriate for areas where public right-of-way is used by both vehicles and pedestrians alike
- Uses smart technology for dimming, energy reads, and automatic alerts for any malfunctions
- Smart feature can be used for emergency management
- Uses lower wattage than traditional HPS bulbs
- No warm up period and instant on
- Color temperature: 5500 degrees Kelvin
- Shields or eyebrows help block the light from emitting towards property and directly to the sidewalks



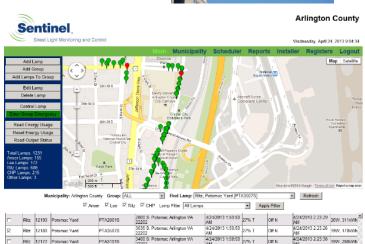
Cobra LED

- Mainly used at signalized intersection on traffic signal poles
- Help provide significant illumination at the intersections for better visibility of pedestrians and vehicles
- Regarded as more functional than decorative due to bigger coverage
- Normally installed on taller poles (25' 30')
- Uses lower wattage than traditional HPS
- No warm up period and instant on
- Preprogrammed dimming
- Color temperature: 4000 degrees Kelvin

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Central Monitoring System

- Radio based system
- Provides energy reads, and alerts for proactive maintenance



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