

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 area
- 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



Central Monitoring System

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

Sentinel
Street Light Monitoring and Control

Wednesday, April 24, 2013 9:04:34

Municipality Scheduler Reports Installer Registers Logout

Map Satellite

Total Lamps: 4231
Ansof Lamps: 155
Ritz Lamps: 172
CHP Lamps: 215
Other Lamps: 3

Municipality	Group	Find Lamp	Lamp Filter	Apply Filter						
<input type="checkbox"/>	Ritz	12193	Potomac Yard	PTA3001S	2800 S. Potomac Arlington VA 22202	4/24/2013 1:58:50 AM	27% T	CR N	4/24/2013 2:23:29 AM	20W, 311kWh
<input type="checkbox"/>	Ritz	12180	Potomac Yard	PTA3507S	3636 S. Potomac Arlington VA 22202	4/24/2013 1:58:50 AM	27% T	CR N	4/24/2013 2:23:26 PM	18W, 178kWh
<input type="checkbox"/>	Ritz	12172	Potomac Yard	PTA3101S	3400 S. Potomac Arlington VA 22202	4/24/2013 1:58:50 AM	27% T	CR N	4/24/2013 2:23:38 PM	18W, 288kWh
<input type="checkbox"/>	Ritz	12173	Potomac Yard	PTA3502S	3600 S. Potomac Ave Arlington VA 22203	4/24/2013 1:58:50 AM	27% T	CR N	4/24/2013 2:23:35 AM	20W, 285kWh
<input type="checkbox"/>	Isis	13160	University Yard	ISU10101S	3800 S. Crystal Drive Arlington VA	4/24/2013 1:58:50	27% T	CR N	4/24/2013 2:23:32	18W, 183kWh