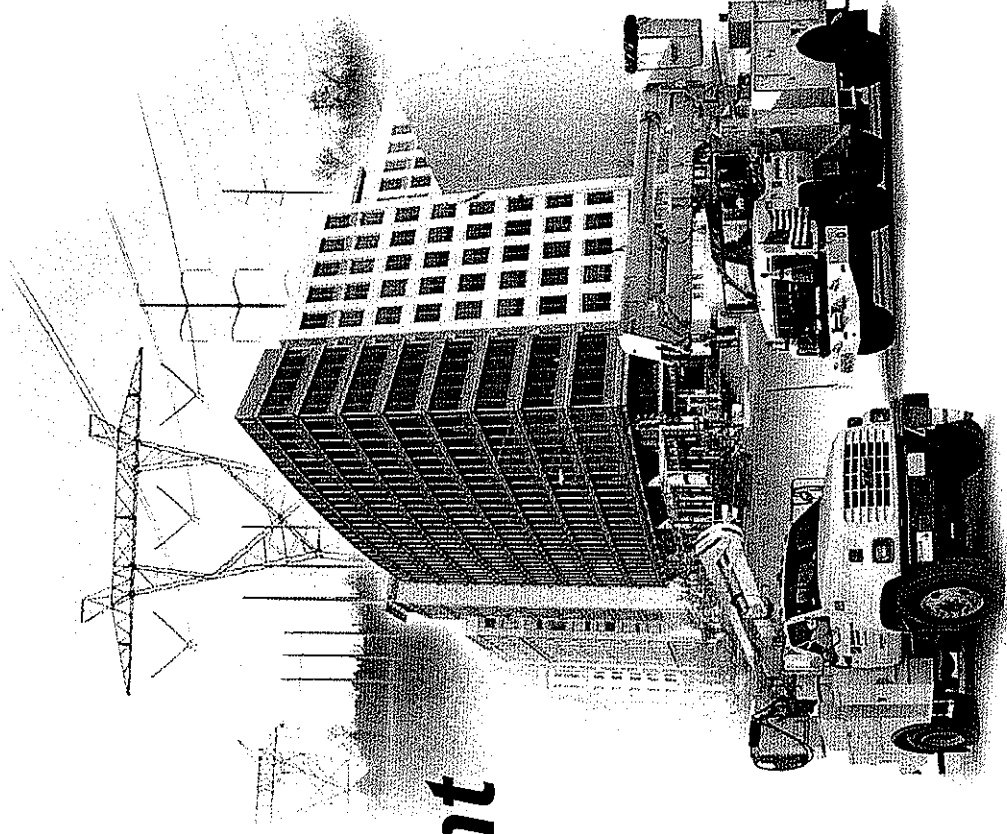




PHI
LED Street Light
Pilot Project
July 19, 2010



PHI LED STREET LIGHT PILOT PROJECT

- Project Status
 - Pepco
 - 3 out of the 4 pilot locations are completed
 - 33 LED lights installed
 - National Harbor completed
 - » 100 W Metal Halide Tear Drop Esplanade to LED
 - » Hadco and Sternberg
 - Somerset completed
 - » 100 W Mercury Vapor Cobra Heads to Beta LED
 - » Roam (Smart Street Light Technology) Completed
 - City of Hyattsville completed
 - » 250 W HPS to LED
 - » Elumen & LED Roadway

PHI LED STREET LIGHT PILOT PROJECT

- Project Status
 - Delmarva
 - 4 out of 4 pilot locations are completed
 - 40 LED lights installed
 - City of Wilmington completed
 - » Roam Completed
 - » 150 W HPS Cobra Heads to LED
 - » LED Roadway and GE
 - Town of Elkton completed
 - » 100 W HPS Granville to LED
 - » Sternberg and Holophane
 - Town of Georgetown completed
 - » 100 W HPS Cobra Heads to Holophane LED
 - Town of Chestertown completed
 - » 150 W HPS to LED
 - » Evolucia and Cooper

PHI LED STREET LIGHT PILOT PROJECT

- Project Status
 - ACE
 - 4 out of 4 pilot locations are completed
 - 40 LED lights installed
 - Ocean City completed
 - » 100 W, 150W & 250 W HPS Cobra Heads to LED
 - » Lighting Technologies & Elumen
 - Northfield completed
 - » 100 W and 150 W HPS Cobra Heads to LED
 - » Elumen and GE
 - Hammonton completed
 - » 150 W HPS Cobra Heads to LED
 - » Beta and GE
 - Wenonah completed
 - » Roam Completed
 - » 70 W HPS Cobra Heads to LED
 - » LED Roadway and Lighting Technologies

PHI LED STREET LIGHT PILOT PROJECT

- Manufacturers in Pilot Project
 - Sternberg
 - Hadco
 - Elumen
 - LED Roadway
 - Beta
 - Cooper
 - GE
 - Holophane
 - Lighting Technologies
 - Evolucia

PHI LED STREET LIGHT PILOT PROJECT

- Communication
 - Press Release
 - Sign at site
 - Web site established
 - Text messaging
 - Email
 - Phone Survey

PHI LED STREET LIGHT PILOT PROJECT

- Testing
 - Meet or exceed IESNA RP-8 guidelines
 - Testing per LM-50 and LM-80
 - Testing Grid
 - Light reading of existing lights at 100 hrs after relamping
 - LED light reading at 100 hrs, 1000 hrs and 2000 hrs
- LED evaluation criteria is to verify the following:
 - Power consumption
 - Ease of installation
 - Lumen output
 - Quality of product
 - Input from customers
- Issue Report by 12/31/10