

# LED STREET LIGHTING

*Environmental Quality & Public Works Committee*

*October 24, 2017*



**LEXINGTON**



## Background

- LFUCG pays Kentucky Utilities to provide street lighting
  - Exception to the rule are the downtown “Granville” lights
- KU street light options are under tariff, subject to approval by the Public Service Commission
- KU did not offer an LED street light until 7/1/2017
  - The tariff now includes eight (8) LED street lights



# LED Benefits

Eliminate various light offerings and move to LED (continued).

- Benefits.
  - Energy Savings
  - Maintenance Costs Savings
  - Extended Lifecycle
  - Lower carbon emissions
  - “Dark Sky” light pollution improvements due to improved optical control.
  - Sharper contrast brighter light improves visibility and provides greater perceived security.
  - Partial/Complete system audit - Every active light within each scenario would be removed and replaced, giving an accurate count and location.
  - In-active and unmetered lights in each scenario would be removed.



# LED Cost Comparison

TYPE	CONVENTIONAL				LED		
	CODE	WATTS	PER MO.		CODE	WATTS	PER MO.
OH-Cobra	463	117	\$ 10.24		390	80	\$ 14.84
OH-Cobra	464	242	\$ 15.85		391	134	\$ 17.96
OH-Cobra	465	471	\$ 25.17		392	228	\$ 27.41
UG-Colonial	468	117	\$ 12.82		399	68	\$ 37.45
UG-Cobra		no equivalent			396	80	\$ 35.36
UG-Cobra		no equivalent			397	134	\$ 38.48
UG-Cobra		no equivalent			398	228	\$ 47.92
OH-Open Bottom	428	117	\$ 8.76		393	50	\$ 9.89



## LED Lighting Collaborative

- Final Order of PSC Case 2016-00370

**5.5. LED Lighting Collaborative.** The Utilities commit to engage in good faith with Louisville Metro, LFUCG, and any other interested Parties to these proceedings in a collaborative to discuss issues related to LED lighting to determine what LED street lighting equipment and rate structures might be offered by the Utilities. The collaborative will include only those Parties to these proceedings interested in participating in the collaborative.

# Questions?

