

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF KENTUCKY UTILITIES)	
COMPANY FOR AN ADJUSTMENT OF ITS)	CASE NO.
ELECTRIC RATES AND FOR CERTIFICATES)	2016-00370
OF PUBLIC CONVENIENCE AND NECESSITY)	

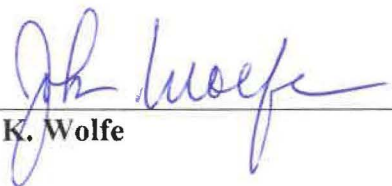
REVISED RESPONSE OF
KENTUCKY UTILITIES COMPANY
TO
SECOND REQUEST FOR INFORMATION OF
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT
DATED FEBRUARY 7, 2017

FILED: MARCH 13, 2017

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **John K. Wolfe**, being duly sworn, deposes and says that he is Vice President - Electric Distribution for Kentucky Utilities Company and Louisville Gas and Electric Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



John K. Wolfe

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 10th day of March 2017.

 (SEAL)

Notary Public

My Commission Expires:
JUDY SCHOOLER
Notary Public, State at Large, KY
My commission expires July 11, 2018
Notary ID # 512743

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Second Request for Information of Lexington-Fayette Urban County
Government
Dated February 7, 2017**

Revised Response filed March 13, 2017

Question No. 52

Responding Witness: John K. Wolfe

Q-52. Identify the brand and model KU proposes to use for each LED light rate code and provide product literature or specifications including at least nominal lamp wattage, fixture input wattage, CRI, color temperature, L70 life, initial warranty duration, and costs that would be covered by a warranty claim. Provide similar data for each non-LED street light luminaire currently provided by KU.

ORIGINAL RESPONSE

A-52. The brand and product numbers for LEDs purchased have not been finalized and the Company is expected to approve multiple manufacturers for each tariffed item offered. See attachments 1 – 3 of preliminary brands and models that are being considered. The information requested is confidential and proprietary and is being provided under seal pursuant to a petition for confidential protection.

LED standard warranties from at least one vendor under consideration are 5 years, with an option for an additional 5 year extended warranty at additional cost. The warranty would cover the cost of the fixture. Warranty provisions, CRI and color temperature are still under review and vary by manufacturer. Total fixture wattage for both non-LED and LED lights are provided in the appropriate tariff. Input wattage, CRI, L70 life will vary by manufacturer and cannot be determined until vendors and products have been finalized. See attachments 4 – 7 for data sheets of existing HID lighting options for which an LED alternative is being offered.

REVISED RESPONSE FILED MARCH 13, 2017

A-52. The brand and product numbers for LEDs purchased have not been finalized and the Company is expected to approve multiple manufacturers for each tariffed item offered. See attachments 1 – 3 of preliminary brands and models that are being considered. Certain information requested is confidential and proprietary and is being provided under seal pursuant to a petition for confidential protection.

CONFIDENTIAL INFORMATION REDACTED

Cobra Fixtures														
High Pressure Sodium								Cooper Lighting LED						
User	Wattage	Voltage	Lens	Ballast	IIN Number	Current prices	HPS Lumens	LED PART NUMBERS	price ea.	weight	LUMENS	WATT	drive current	pwr factor
LG&E	150	120	Type II	NPF	1186143		16,000	VERD-A028-D-U-T2-10K-4N7-AP		20 lbs	7,858	72W		0.9
LG&E	250		Type III	AUTO REG	1186151		27,500	VERD-G-A02-D-U-T3-4N7-10K-AP		20 lbs	15,332	143W	1100mA	0.9
KU/LG&E	400		Type III	AUTO REG	7001310		50,000	NVN-AE-04-D-U-T3-10K-4N7-AP		31 lbs.	24,404	225W		0.9



VERD

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Colonial Fixtures														
High Pressure Sodium								Cooper Lighting LED						
User	Wattage	Voltage	Lens	Ballast	IIN Number	Current prices	HPS Lumens	LED PART NUMBERS	price ea.	weight	LUMENS	WATT	drive current	pwr factor
LG&E/KU	100	120	Type III	Black	7001307		9,500	UTLDE02LEDDU5MQ4N7		37 LBS	5,630	52		0.9



Open Bottom Fixtures														
High Pressure Sodium								Cooper Lighting LED						
User	Wattage	Voltage	Lens	Ballast	IIN Number	Current prices	HPS Lumens	LED PART NUMBERS	price ea.	weight	LUMENS	WATT	drive current	pwr factor
LG&E/KU	100	120	V	Head	7003307		9,500	CRTK-A-A08-D-U-5-10K-SR-V-4N7-A		8.0 lbs	4,814	48W	40mA	0.9
LG&E/KU	100			Kit	7001326		9,500	CRTK-A-A08-D-U-5-10K-SR-V-4N7-U0119						



NOTE: Headings shown in yellow highlight are not confidential.

CONFIDENTIAL INFORMATION REDACTED

Cobra Fixtures															
High Pressure Sodium								GE LED							
User	Watts	Voltage	Lens	Ballast	IIN Number	Current prices	HPS Lumens	LED PART NUMBERS	price ea.	weight	LUMENS	WATT	Drive Current	Pwr Factor	IES Files
LG&E	150	120	Type II	NPF	1186143		16,000	ERL1008E140AGRAYR		15.5 LBS	8,500	88	700mA	>90%	erl1_08e140_tcm201-104074.ies
LG&E	250		Type III	AUTO REG	1186151		27,500	ERLH013F140AGRAYR		16 LBS	13,000	125	825mA	>90%	ERLH_13F140
KU/LG&E	400		Type III	AUTO REG	7001310		50,000	ERS2025F140XAGRAYR		25 - 29 lbs	25,000	243	810mA	>90%	ers2_25f140_tcm201-103917.ies



Colonial Fixtures															
High Pressure Sodium								GE LED							
User	Watts	Voltage	Lens	Color	IIN Number	Current prices	HPS Lumens	LED PART NUMBERS	price ea.	weight	LUMENS	WATT	Drive Current	Pwr Factor	IES Files
LG&E/KU	100	120	Type III	Black	7001307		9,500	EPSTOC540NAPBLCK		27	6,600	90	440mA	>90%	EPST_C541N-120-277V_tcm201-83836.IES



Open Bottom Fixtures															
High Pressure Sodium								GE LED							
User	Watts	Voltage	Lens	Head Or Kit	IIN Number	Current prices	HPS Lumens	LED PART NUMBERS	price ea.	weight	LUMENS	WATT	Drive Current	Pwr Factor	IES Files
LG&E/KU	100	120	V	Head	7003307		9,500	E2SA0B1B5140AN4R		8 lbs	5,200	57	440mA	>90%	E2SA_B1B5140_tcm201-96191.IES
LG&E/KU	100			Kit	7001326		9,500	E2SA0B1B5140AL4R							E2SA_B1B5140_tcm201-96191.IES



NOTE: Headings shown in yellow highlight are not confidential.

CONFIDENTIAL INFORMATION REDACTED

Cobra Fixtures												
High Pressure Sodium								AEL LED				
User	Wattage	Voltage	Lens	Ballast	IIN Number	Current Prices	Lumens	LED PART NUMBERS	Price ea.	weight	LED LUMENS	INPUT WATTS
KU	50	120	Type II	NPF	7001314		4,000	ATBS E MVOLT R2		12 LBS.	3,962	39W
KU	70		Type II	NPF	7001313		5,800	ATBS F MVOLT R2		12 LBS.	4,563	49W
KU	100		Type II	NPF	7001312		9,500	ATBS G MVOLT R2		12 LBS.	5,629	64W
LG&E	150		Type II	NPF	1186143		16,000	ATB0 30BLEDE70 MVOLT R2		14 LBS	7,053	70W
LG&E	150		Type II	NPF	0511235*		16,000	ATB0 30BLEDE13 MVOLT R2		14 LBS	10,790	135W
KU	200		Type III	NPF	7001311		22,000	ATB0 30BLEDE85 MVOLT R3		14 LBS	8,155	107W
LG&E	250		Type III	AUTO REG	1186151		27,500	ATB2 60 BLEDE70 MVOLT R3		21 LBS	14,054	138W
KU/LG&E	400		Type III	AUTO REG	7001310		50,000	ATB2 80BLEDE85 MVOLT R3		21 LBS	21,772	232W
LG&E	400	480	Type III	AUTO REG	0454501		50,000	ATB2 80BLEDE10 480 R3		21 LBS	25,050	284W

Colonial Fixtures												
High Pressure Sodium												
User	Wattage	Voltage	Lens	Color	IIN Number	current	Lumens	Part Number	Price ea.	weight	LED LUMENS	INPUT WATTS
KU	50	120	Type III	Black	7001309		4,000	247L 10LEDE70 MVOLT 4K R3 AY		36 LBS	1804	25
LG&E/KU	70				7001308		5,800	247L 10LEDE10 MVOLT 4K R3 AY		36 LBS	2345	38
LG&E/KU	100				7001307		9,500	247L 20LEDE70 MVOLT 4K R3 AY		36 LBS	3473	45
LG&E	150				0474735		16,000	247L 20LEDE10 MVOLT 4K R3 AY		36 LBS	4510	72

Open Bottom Fixtures												
High Pressure Sodium												
User	Wattage	Voltage	Lens	Head Or Kit	IIN Number	current	Lumens	LED PART NUMBER	price	weight	LUMENS	INPUT WATTS
LG&E/KU	100	120	V	Head	7003307		9,500	LNH2 LU5 MVOLT R5 BA		10 lbs	6,200	64
LG&E/KU	100			Kit	7001326		9,500	LNH2PKG LU5 MVOLT R5 BA				

NOTE: Headings shown in yellow highlight are not confidential.