

**Ameren Illinois Company d/b/a Ameren Illinois
Rate Zone II
ESTIMATED CHARGES ASSOCIATED WITH LIGHTING SERVICE**

Currently Available Street and Protective Lighting Services (1)

	<u>Nominal Wattage Rating</u>	<u>Lumen Rating</u>	<u>Ballast Losses</u>	<u>Annual</u>				<u>Monthly (Annual / 12, rounding may occur)</u>			
				<u>kWh</u>	<u>Fixture Charge</u>	<u>Estimated Total Variable Charge (2)</u>	<u>Estimated Total</u>	<u>Average kWh (3)</u>	<u>Fixture Charge</u>	<u>Estimated Total Variable Charge (2)</u>	<u>Estimated Total</u>
<u>High-Intensity Discharge (HID)</u>											
<u>Decorative Lighting</u>											
Sodium Vapor	100	9,800	126	504	\$88.92	\$30.42	\$119.34	42	\$7.41	\$2.53	\$9.94
Metal Halide	150	12,900	193	772	\$116.88	\$46.60	\$163.48	64	\$9.74	\$3.88	\$13.62
<u>Light Emitting Diode (LED)</u>											
<u>Area LED Lighting</u>											
LED 10	39	4,470		156	\$66.12	\$9.42	\$75.54	13	\$5.51	\$0.78	\$6.29
LED 25	107	11,960		428	\$83.76	\$25.83	\$109.59	36	\$6.98	\$2.15	\$9.13
LED 40	190	20,400		760	\$95.88	\$45.87	\$141.75	63	\$7.99	\$3.82	\$11.81
<u>Directional LED Lighting</u>											
LED 25	98	12,600		392	\$85.92	\$23.66	\$109.58	33	\$7.16	\$1.97	\$9.13
LED 40	150	18,200		600	\$101.04	\$36.21	\$137.25	50	\$8.42	\$3.02	\$11.44

Note: AIC plans to replace all of its existing area and directional fixtures at the time that any component (including bulbs or photocells) fails to LED. LED will also be installed in new construction.

Ameren Illinois Company d/b/a Ameren Illinois
Rate Zone II
ESTIMATED CHARGES ASSOCIATED WITH LIGHTING SERVICE

Lighting Fixtures Not Available to New Installations (4)

	<u>Nominal Wattage Rating</u>	<u>Lumen Rating</u>	<u>Ballast Losses</u>	<u>Annual</u>				<u>Monthly (Annual / 12, rounding may occur)</u>			
				<u>kWh</u>	<u>Unit Fixture Charge</u>	<u>Estimated Total Variable Charge (2)</u>	<u>Estimated Total</u>	<u>Average kWh (3)</u>	<u>Unit Fixture Charge (5)</u>	<u>Estimated Total Variable Charge (2, 6)</u>	<u>Estimated Total</u>
<u>High-intensity Discharge (HID)</u>											
<u>Sodium Vapor</u>											
Area	70	6,000	84	336	\$66.12	\$20.28	\$86.40	28	\$5.51	\$1.69	\$7.20
	100	9,800	126	504	\$66.12	\$30.42	\$96.54	42	\$5.51	\$2.53	\$8.04
	150	16,000	182	728	\$66.12	\$43.94	\$110.06	61	\$5.51	\$3.66	\$9.17
	250	29,000	300	1,200	\$83.76	\$72.43	\$156.19	100	\$6.98	\$6.04	\$13.02
	400	50,000	470	1,880	\$95.88	\$113.47	\$209.35	157	\$7.99	\$9.46	\$17.45
	1,000	130,000	1,105	4,420	\$95.88	\$266.78	\$362.66	368	\$7.99	\$22.23	\$30.22
Directional	250	29,000	300	1,200	\$85.92	\$72.43	\$158.35	100	\$7.16	\$6.04	\$13.20
	400	50,000	470	1,880	\$101.04	\$113.47	\$214.51	157	\$8.42	\$9.46	\$17.88
<u>Metal Halide</u>											
Area	250	22,000	294	1,176	\$83.76	\$70.98	\$154.74	98	\$6.98	\$5.91	\$12.89
	400	36,000	450	1,800	\$95.88	\$108.64	\$204.52	150	\$7.99	\$9.05	\$17.04
Directional	250	22,000	294	1,176	\$85.92	\$70.98	\$156.90	98	\$7.16	\$5.91	\$13.07
	400	36,000	450	1,800	\$101.04	\$108.64	\$209.68	150	\$8.42	\$9.05	\$17.47
Decorative	175	14,400	208	824	\$116.88	\$49.73	\$166.61	69	\$9.74	\$4.14	\$13.88
<u>Mercury Vapor</u>											
Area	100	4,100	111	444	\$66.12	\$26.80	\$92.92	37	\$5.51	\$2.23	\$7.74
	175	8,400	196	784	\$66.12	\$47.32	\$113.44	65	\$5.51	\$3.94	\$9.45
	250	12,500	294	1,176	\$66.12	\$70.98	\$137.10	98	\$5.51	\$5.91	\$11.42
	400	23,000	450	1,800	\$83.76	\$108.64	\$192.40	150	\$6.98	\$9.05	\$16.03
	700	42,000	780	3,120	\$83.76	\$188.31	\$272.07	260	\$6.98	\$15.69	\$22.67
	1,000	58,000	1,095	4,380	\$95.88	\$264.36	\$360.24	365	\$7.99	\$22.03	\$30.02
<u>Incandescent</u>											
Area	92	1,000	92	368	\$66.12	\$22.21	\$88.33	31	\$5.51	\$1.85	\$7.36
	133	1,000	133	532	\$66.12	\$32.11	\$98.23	44	\$5.51	\$2.68	\$8.19
	189	2,500	189	756	\$66.12	\$45.63	\$111.75	63	\$5.51	\$3.80	\$9.31
	295	4,000	295	1,180	\$66.12	\$71.22	\$137.34	98	\$5.51	\$5.94	\$11.45
	405	6,000	405	1,620	\$66.12	\$97.78	\$163.90	135	\$5.51	\$8.15	\$13.66

Notes:

- (1) Prior to January 2, 2007, the Lighting Tariffs contained separate categories and charges for Street and Protective Lighting and separate charges between residential and non-residential. Effective January 2, 2007, prices are the same regardless of prior category. Starting in June 2017, LED Lighting will be installed on a replace-fail method.
- (2) Variable charges include Energy Charge, Distribution Delivery Charge, Energy Distribution Tax and Rider TS Charge.
- (3) Monthly kWh is based on an average yearly kWh. Actual kWh may vary monthly depending on the month.
- (4) Customers taking service under Mercury Vapor and certain Metal Halide lighting service prior to January 2, 2007, shall be allowed to continue operation until the fixtures require major maintenance. Mapping of the old fixture to the new fixture can be found in the Rate DS-5 - Lighting Service tariff.
- (5) The fixture charge is based on the price for the replacement fixture.
- (6) Variable charges are based on kWh consumption of existing fixture.

Ameren Illinois Company d/b/a Ameren Illinois
MONTHLY KWH PER FIXTURE FOR BILLING PURPOSES

Billing Month:	<u>Jan.</u>	<u>Feb.</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>	<u>Total</u>	<u>Ave/Month</u>
Burning Hours:	408	347	346	301	279	255	272	298	322	368	387	417	4,000	333
Monthly Burn Hour Factor:	0.10200	0.08675	0.08650	0.07525	0.06975	0.06375	0.06800	0.07450	0.08050	0.09200	0.09675	0.10425	1	

Currently Available Street and Protective Lighting Services

Type of Lamp	Nominal Wattage	Wattage Incl. Ballast Losses	KWH to Be Billed On a Monthly Basis												Annual kWh	Ave. kWh Per Month
			<u>Jan.</u>	<u>Feb.</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>		
High-Intensity Discharge (HID)																
<u>Decorative</u>																
Sodium Vapor	100	126	51	44	44	38	35	32	34	38	41	46	49	53	504	42
Metal Halide	150	193	79	67	67	58	54	49	52	58	62	71	75	80	772	64
Light Emitting Diode (LED)																
<u>Area</u>																
LED 10	39		16	14	13	12	11	10	11	12	13	14	15	16	156	13
LED 25	107		44	37	37	32	30	27	29	32	34	39	41	45	428	36
LED 40	190		78	66	66	57	53	48	52	57	61	70	74	79	760	63
<u>Directional</u>																
LED 25	98		40	34	34	29	27	25	27	29	32	36	38	41	392	33
LED 40	150		61	52	52	45	42	38	41	45	48	55	58	63	600	50

Lighting Fixtures Not Available to New Installations

Type of Lamp	Nominal Wattage	Wattage Incl. Ballast Losses	KWH to Be Billed On a Monthly Basis												Annual kWh	Ave. kWh Per Month
			<u>Jan.</u>	<u>Feb.</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>		
High-Intensity Discharge (HID)																
<u>Sodium Vapor</u>																
	70	84	34	29	29	25	23	21	23	25	27	31	33	35	336	28
	150	182	74	63	63	55	51	46	50	54	59	67	70	76	728	61
	250	300	122	104	104	90	84	77	82	89	97	110	116	125	1,200	100
	400	470	192	163	163	141	131	120	128	140	151	173	182	196	1,880	157
	1,000	1,105	451	383	382	333	308	282	301	329	356	407	428	461	4,420	368
<u>Metal Halide</u>																
	175	206	84	71	71	62	57	53	56	61	66	76	80	86	824	69
	250	294	120	102	102	88	82	75	80	88	95	108	114	123	1,176	98
	400	450	184	156	156	135	126	115	122	134	145	166	174	188	1,800	150
	1,000	1,077	439	374	373	324	300	275	293	321	347	396	417	449	4,308	359

Ameren Illinois Company d/b/a Ameren Illinois
MONTHLY KWH PER FIXTURE FOR BILLING PURPOSES

Billing Month:	<u>Jan.</u>	<u>Feb.</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>	<u>Total</u>	<u>Ave/Month</u>
Burning Hours:	408	347	346	301	279	255	272	298	322	388	387	417	4,000	333
Monthly Burn Hour Factor:	0.10200	0.08675	0.08650	0.07525	0.06975	0.06375	0.06800	0.07450	0.08050	0.09200	0.09675	0.10425	1	

Lighting Fixtures Not Available to New Installations (cont.)

Type of Lamp	Nominal Wattage	Wattage Incl. Ballast Losses	KWH to Be Billed On a Monthly Basis												Annual kWh	Ave. kWh Per Month
			<u>Jan.</u>	<u>Feb.</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>		
High-intensity Discharge (HID)																
<u>Mercury Vapor</u>	100	111	45	39	38	33	31	28	30	33	36	41	43	46	444	37
	175	196	80	68	68	59	55	50	53	58	63	72	76	82	784	65
	250	294	120	102	102	88	82	75	80	88	95	108	114	123	1,176	98
	400	450	184	156	156	135	126	115	122	134	145	166	174	188	1,800	150
	700	780	318	271	270	235	218	199	212	232	251	287	302	325	3,120	260
	1,000	1,095	447	380	379	330	306	279	298	326	353	403	424	457	4,380	365
Incandescent																
	92	92	38	32	32	28	26	23	25	27	30	34	36	38	368	31
	103	103	42	36	36	31	29	26	28	31	33	38	40	43	412	34
	133	133	54	46	46	40	37	34	36	40	43	49	51	55	532	44
	189	189	77	66	65	57	53	48	51	56	61	70	73	79	756	63
	202	202	82	70	70	61	56	52	55	60	65	74	78	84	808	67
	295	295	120	102	102	89	82	75	80	88	95	109	114	123	1,180	98
	327	327	133	113	113	98	91	83	89	97	105	120	127	136	1,308	109
	405	405	165	141	140	122	113	103	110	121	130	149	157	169	1,620	135
	448	448	183	155	155	135	125	114	122	134	144	165	173	187	1,792	149
	620	620	253	215	215	187	173	158	169	185	200	228	240	259	2,480	207
	690	690	282	239	239	208	193	176	188	206	222	254	267	288	2,760	230

Notes:

*Monthly kWh includes ballast losses. LED lights do not have ballast losses.

*The monthly burn hour factor is a monthly calculation. Only Calendar Billed Lighting (DS-5) service bills are from beginning of month to end of month. Other lighting bills span two months which would result in a prorated monthly burn hour factor.

**Rate Zone II
MONTHLY CALCULATION OF TOTAL LIGHTING CHARGES ***

Type of Lamp	Nominal Wattage	January	February	March	April	May	June	July	August	September	October	November	December	Total
		Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Charge	Total Annual Charge
Currently Available Street and Protective Lighting Services														
High-intensity Discharge (HID)														
Decorative														
Sodium Vapor	100	\$10.62	\$10.14	\$10.13	\$9.77	\$9.60	\$9.19	\$9.31	\$9.49	\$9.66	\$10.30	\$10.45	\$10.69	\$119.34
Metal Halide	150	\$14.65	\$13.92	\$13.90	\$13.36	\$13.10	\$12.47	\$12.65	\$12.93	\$13.18	\$14.17	\$14.40	\$14.76	\$163.48
Light Emitting Diode (LED)														
Area LED														
LED 10	39	\$6.50	\$6.35	\$6.35	\$6.24	\$6.19	\$6.06	\$6.10	\$6.15	\$6.21	\$6.40	\$6.45	\$6.52	\$75.54
LED 25	107	\$9.70	\$9.29	\$9.29	\$8.99	\$8.84	\$8.49	\$8.59	\$8.75	\$8.89	\$9.43	\$9.56	\$9.76	\$109.59
LED 40	190	\$12.82	\$12.10	\$12.09	\$11.56	\$11.30	\$10.67	\$10.85	\$11.13	\$11.38	\$12.35	\$12.57	\$12.93	\$141.75
Directional LED														
LED 25	98	\$9.65	\$9.28	\$9.27	\$9.00	\$8.86	\$8.54	\$8.64	\$8.78	\$8.91	\$9.41	\$9.52	\$9.71	\$109.58
LED 40	150	\$12.24	\$11.67	\$11.66	\$11.23	\$11.03	\$10.54	\$10.68	\$10.90	\$11.10	\$11.86	\$12.04	\$12.32	\$137.25
Lighting Fixtures Not Available to New Installations														
High-Intensity Discharge (HID)														
Sodium Vapor														
Area	70	\$7.65	\$7.33	\$7.32	\$7.09	\$6.97	\$6.70	\$6.78	\$6.90	\$7.01	\$7.44	\$7.54	\$7.69	\$86.40
	100	\$8.72	\$8.24	\$8.23	\$7.87	\$7.70	\$7.29	\$7.41	\$7.59	\$7.76	\$8.40	\$8.55	\$8.79	\$96.54
	150	\$10.14	\$9.45	\$9.44	\$8.93	\$8.68	\$8.08	\$8.25	\$8.52	\$8.76	\$9.69	\$9.90	\$10.24	\$110.06
	250	\$14.61	\$13.47	\$13.45	\$12.61	\$12.20	\$11.22	\$11.50	\$11.93	\$12.33	\$13.86	\$14.22	\$14.78	\$156.19
	400	\$19.95	\$18.16	\$18.13	\$16.81	\$16.17	\$14.63	\$15.07	\$15.75	\$16.38	\$18.77	\$19.33	\$20.21	\$209.35
	1,000	\$36.10	\$31.90	\$31.83	\$28.73	\$27.21	\$23.60	\$24.64	\$26.24	\$27.70	\$33.34	\$34.65	\$36.72	\$362.66
Directional	250	\$14.79	\$13.65	\$13.63	\$12.79	\$12.38	\$11.40	\$11.68	\$12.11	\$12.51	\$14.04	\$14.40	\$14.96	\$158.35
	400	\$20.38	\$18.59	\$18.56	\$17.24	\$16.60	\$15.06	\$15.50	\$16.18	\$16.81	\$19.20	\$19.76	\$20.64	\$214.51
Metal Halide														
Area	250	\$14.46	\$13.34	\$13.32	\$12.50	\$12.09	\$11.13	\$11.41	\$11.83	\$12.23	\$13.73	\$14.07	\$14.62	\$154.74
	400	\$19.44	\$17.73	\$17.70	\$16.43	\$15.82	\$14.35	\$14.77	\$15.42	\$16.02	\$18.31	\$18.85	\$19.69	\$204.52
Directional	250	\$14.64	\$13.52	\$13.50	\$12.68	\$12.27	\$11.31	\$11.59	\$12.01	\$12.41	\$13.91	\$14.25	\$14.80	\$156.90
	400	\$19.87	\$18.16	\$18.13	\$16.86	\$16.25	\$14.78	\$15.20	\$15.85	\$16.45	\$18.74	\$19.28	\$20.12	\$209.68
Decorative	175	\$14.98	\$14.20	\$14.18	\$13.61	\$13.32	\$12.65	\$12.84	\$13.14	\$13.42	\$14.47	\$14.71	\$15.10	\$166.61
Mercury Vapor														
Area	100	\$8.33	\$7.91	\$7.90	\$7.59	\$7.44	\$7.08	\$7.18	\$7.34	\$7.49	\$8.06	\$8.19	\$8.40	\$92.92
	175	\$10.50	\$9.75	\$9.74	\$9.19	\$8.92	\$8.28	\$8.46	\$8.75	\$9.01	\$10.01	\$10.24	\$10.61	\$113.44
	250	\$12.99	\$11.87	\$11.85	\$11.03	\$10.62	\$9.66	\$9.94	\$10.36	\$10.76	\$12.26	\$12.60	\$13.15	\$137.10
	400	\$18.43	\$16.72	\$16.69	\$15.42	\$14.81	\$13.34	\$13.76	\$14.41	\$15.01	\$17.30	\$17.84	\$18.68	\$192.40
	700	\$26.82	\$23.85	\$23.81	\$21.62	\$20.55	\$18.00	\$18.74	\$19.86	\$20.90	\$24.88	\$25.80	\$27.26	\$272.07
	1,000	\$35.84	\$31.68	\$31.61	\$28.54	\$27.04	\$23.46	\$24.49	\$26.07	\$27.53	\$33.11	\$34.41	\$36.46	\$360.24
Incandescent														
Area	92	\$7.85	\$7.50	\$7.49	\$7.24	\$7.11	\$6.81	\$6.90	\$7.03	\$7.15	\$7.62	\$7.73	\$7.90	\$88.33
	133	\$8.89	\$8.39	\$8.38	\$8.01	\$7.82	\$7.39	\$7.51	\$7.71	\$7.88	\$8.56	\$8.72	\$8.97	\$98.23
	189	\$10.32	\$9.60	\$9.59	\$9.06	\$8.80	\$8.18	\$8.36	\$8.63	\$8.88	\$9.85	\$10.07	\$10.42	\$111.75
	295	\$13.01	\$11.89	\$11.87	\$11.05	\$10.64	\$9.68	\$9.96	\$10.38	\$10.77	\$12.28	\$12.63	\$13.18	\$137.34
	405	\$15.81	\$14.27	\$14.25	\$13.11	\$12.55	\$11.23	\$11.61	\$12.20	\$12.74	\$14.80	\$15.28	\$16.04	\$163.90

*These charges include - variable charges (Energy Charge, Distribution Delivery Charge, Electric Distribution Tax and Rider TS Charge) and Fixture Charge. Rounding may occur.
 Note: The monthly burn hour factor is a monthly calculation. Only Calendar Billed Lighting (DS-5) service bills are from beginning of month to end of month.
 Other lighting bills span two months which would result in a prorated monthly burn hour factor.