

**Appliance Standards Awareness Project**  
**2025 State Clean Lighting**  
**Savings estimates for: Kentucky**

State	Potential annual reductions in 2030			Potential annual electricity savings in 2030 (GWh)	Potential annual electricity bill savings in 2030 (million 2023\$)
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO <sub>2</sub> emissions (thous. MT)		
Kentucky	13.8	0.77	112	382	28

Assuming a compliance date of 2027 for linear fluorescent lightbulbs and pin-based compact fluorescent lightbulbs and 2026 for screw-based compact fluorescent lightbulbs.

State	Potential cumulative reductions through 2050			Cumulative electricity savings through 2050 (GWh)	Cumulative electricity bill savings through 2050 (million 2023\$)
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO <sub>2</sub> emissions (thous. MT)		
Kentucky	119	8.1	1,295	5,412	429

Assuming a compliance date of 2027 for linear fluorescent lightbulbs and pin-based compact fluorescent lightbulbs and 2026 for screw-based compact fluorescent lightbulbs.

**Fluorescent vs. LED: Economic analysis for most-shipped lamps (commercial sector)**

Fluorescent lamp type	LED incremental cost (2023\$)	First-year electricity bill savings from LED (2023\$)	Life-cycle cost savings from LED (2023\$)	Payback period (years)
4-foot T12 – 40 W	2.32	7.06	35	0.3
4-foot T12 – 34 W	3.56	5.07	28	0.7
4-foot T8	0.12	3.43	22	0.03
4-foot T5	1.55	4.55	31	0.3
4-foot T5 high output	4.23	9.03	58	0.5
Pin-based CFL	2.29	5.78	18	0.4