

Appliance Standards Awareness Project

2023 State Clean Lighting

Savings estimates for: Oklahoma

State	Potential annual reductions in 2030			Potential annual electricity savings in 2030 (GWh)	Potential annual electricity bill savings in 2030 (million 2020\$)
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO ₂ emissions (thous. MT)		
Oklahoma	15.1	0.82	184	684	51

Assuming a compliance date of 2025.

State	Potential cumulative reductions through 2050			Cumulative electricity bill savings through 2050 (million 2020\$)	Total benefit–cost ratio
	Mercury in lamps shipped (lbs)	Power plant mercury emissions (lbs)	CO ₂ emissions (thous. MT)		
Oklahoma	176	8.7	2,021	626	9.9

Assuming a compliance date of 2025. The total benefit-cost ratio is calculated as the present value of the total utility bill savings from products sold through 2050 for the recommended standard divided by the present value of the total additional costs.

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

Fluorescent lamp type	LED incremental cost (2020\$)	First-year electricity bill savings from LED (2020\$)	Life-cycle cost savings from LED (2020\$)	Payback period (years)
4-foot T12 – 40 W	2.59	6.34	30	0.3
4-foot T12 – 34 W	3.67	4.56	24	0.7
4-foot T8	0.54	3.09	19	0.03
4-foot T5	2.29	4.09	27	0.3
4-foot T5 high output	4.61	8.12	50	0.5
Pin-based CFL	3.02	5.07	16	0.4