

**Appliance Standards Awareness Project**  
**2026 State Clean Lighting**  
**Savings estimates for: North Carolina**

State	Potential annual reductions in 2035			
	Mercury in lamps shipped (lbs)	CO <sub>2</sub> emissions (thous. MT)	Potential annual electricity savings in 2035 (GWh)	Potential annual electricity bill savings in 2035 (million 2024\$)
North Carolina	3.5	13	265	27

Assuming a compliance date of 2028.

State	Potential cumulative reductions through 2050			
	Mercury in lamps shipped (lbs)	CO <sub>2</sub> emissions (thous. MT)	Cumulative electricity savings through 2050 (GWh)	Cumulative electricity bill savings through 2050 (million 2024\$)
North Carolina	73	267	3,177	320

Assuming a compliance date of 2028.

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

Fluorescent lamp type	LED incremental cost (2024\$)	First-year electricity bill savings from LED (2024\$)	Life-cycle cost savings from LED (2024\$)	Payback period (years)
4-foot T12 – 40 W	1.43	6.97	35	0.2
4-foot T12 – 34 W	4.71	5.00	27	0.9
4-foot T8	0.55	3.46	22	0.2
4-foot T5	3.08	4.49	29	0.7
4-foot T5 high output	5.45	8.92	57	0.6