

**Appliance Standards Awareness Project**  
**2026 State Clean Lighting**  
**Savings estimates for: South 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\$) |
| South Carolina | 1.8                                 | 7                                     | 138                                                | 14                                                                 |

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\$) |
| South Carolina | 37                                           | 138                                   | 1,647                                             | 166                                                               |

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                          | 5.01                                                  | 27                                        | 0.9                    |
| 4-foot T8             | 0.55                          | 3.47                                                  | 22                                        | 0.2                    |
| 4-foot T5             | 3.08                          | 4.49                                                  | 29                                        | 0.7                    |
| 4-foot T5 high output | 5.45                          | 8.93                                                  | 57                                        | 0.6                    |