

**Appliance Standards Awareness Project**  
**2024 State Clean Lighting**  
**Savings estimates for: Connecticut**

| State       | Potential annual reductions in 2030 |                                     |                                       | Potential annual electricity savings in 2030 (GWh) | Potential annual electricity bill savings in 2030 (million 2022\$) |
|-------------|-------------------------------------|-------------------------------------|---------------------------------------|--|--|
|             | Mercury in lamps shipped (lbs)      | Power plant mercury emissions (lbs) | CO <sub>2</sub> emissions (thous. MT) |  |  |
| Connecticut | 9.5                                 | --                                  | 23                                    | 302  | 52   |

Assuming a compliance date of 2026 for linear fluorescent lightbulbs and 2025 for compact fluorescent lightbulbs.

| State       | Potential cumulative reductions through 2050 |                                     |                                       | Cumulative electricity savings through 2050 (GWh) | Cumulative electricity bill savings through 2050 (million 2022\$) |
|-------------|--|-------------------------------------|---------------------------------------|---|---|
|             | Mercury in lamps shipped (lbs)               | Power plant mercury emissions (lbs) | CO <sub>2</sub> emissions (thous. MT) |   |   |
| Connecticut | 96   | 0.0002                              | 337                                   | 4,118   | 750   |

Assuming a compliance date of 2026 for linear fluorescent lightbulbs and 2025 for compact fluorescent lightbulbs.

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

| Fluorescent lamp type | LED incremental cost (2022\$) | First-year electricity bill savings from LED (2022\$) | Life-cycle cost savings from LED (2022\$) | Payback period (years) |
|-----------------------|-------------------------------|---|---|------------------------|
| 4-foot T12 – 40 W     | 2.16                          | 14.17   | 63  | 0.2                    |
| 4-foot T12 – 34 W     | 3.32                          | 10.18   | 51  | 0.3                    |
| 4-foot T8             | 0.11                          | 6.89  | 38  | 0.02                   |
| 4-foot T5             | 1.45                          | 9.13  | 56  | 0.2                    |
| 4-foot T5 high output | 3.95                          | 18.13   | 108                                       | 0.2                    |
| Pin-based CFL         | 2.14                          | 11.33   | 31  | 0.2                    |