



| v4 - LEED v4

## PBT source reduction - mercury

Possible 1 point

Glossary 

### Intent

To reduce the release of Persistent Bioaccumulative and Toxic (PBTs) chemicals associated with the life cycle of building materials.

### Requirements

Specify and install fluorescent lamps with both low mercury content (MR Prerequisite PBT Source Reduction—Mercury) and long lamp life, as listed in Table 1.

**Table 1. criteria for rate life of low-mercury lamps**

| Lamp                                     | Maximum content                       | Lamp Life (hrs)  |
|--|---------------------------------------|--|
| T-8 fluorescent, eight-foot              | 10 mg mercury                         | <b>standard output</b> - 24,000 rated hours on instant start ballasts or program start ballasts (3-hour starts)<br><b>high output</b> - 18,000 rated hours on instant start ballasts or program start ballasts (3-hour starts) |
| T-8 fluorescent, four-foot               | 3.5 mg mercury                        | both standard and high output 30,000 rated hours on instant start ballasts, or 36,000 rated hours on program start ballasts (3 hour starts)  |
| T-8 fluorescent- two foot and three foot | 3.5 mg mercury                        | 24,000 rated hours on instant start ballasts or program start ballasts (3-hour starts)   |
| T-8 fluorescent, U-bent                  | 6 mg mercury                          | 18,000 rated hours on instant start ballasts, or 24,000 rated hours on program start ballasts (3-hour starts)  |
| T-5 fluorescent, linear                  | 2.5 mg mercury                        | <b>both standard and high output</b> - 25,000 rated hours on program start ballasts  |
| Compact fluorescent, nonintegral ballast | 3.5 mg mercury                        | 12,000 rated hours   |
| Compact fluorescent, integral ballast    | 3.5 mg mercury, ENERGY STAR qualified | <b>Bare bulb</b> - 10,000 rated hours<br><b>covered models such as globes, reflectors, A-19s</b> - 8,000 rated hours   |
| High-pressure sodium, up to 400 watts    | 10 mg mercury                         | Use noncycling type or replace with LED lamps or induction lamps   |
| High-pressure sodium, above 400 watts    | 32 mg mercury                         | Use noncycling type or replace with LED lamps or induction lamps   |

Do not specify or install circular fluorescent lamps or probe start metal halide lamps.