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NOTES

The highest cost for an integral LED fixture is the fixture itself. However, most LED fixtures have an estimated lifetime of over 20 years. When converting to LED, it is important to consider the age of the existing infrastructure, availability of components and the cost of LED replacement lamps over time. There are also programs to help offset the cost of converting to LED, including those provided by local municipalities, states and even energy providers.

CRI was developed using an incandescent referent. As a result, Halogen sources are almost always listed with $99+\ CRI.\ TM-30$ was developed to remove this bias, and provide a more contemporary means for evaluating color rendering.

90% of the output of a Halogen lamp is heat. This results not only in substantially low efficacy compared to LEDs, but it can contribute to thermal gain. Depending on season and region, this can contribute significantly to building energy consumption.

Data for the embodied energy and carbon of LEDs is fairly sparse; the information provided is estimated from DoE reports that are several years old. It has been adjusted to align with the energy profiles of contemporary sources. LITELAB CORP. 251 ELM STREET BUFFALO, NY 14203 716.856.4300



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