

PROJECT CASE STUDY

LIBRARY OF CONGRESS Historic Spaces, Modern Lighting Solutions

ENVOCORE SOLUTIONS

- ◆ Upgraded or retrofitted over 69,309 fixtures with new LED lamps or fixtures.
- ◆ Replaced existing 25-watt T8 fluorescent tubes with high-quality, mercury-free, energy-efficient LED lamps rated for 50,000 hours with a 5-year warranty.
- ◆ Installed Lutron network lighting control systems—Quantum and Vive—in three downtown Washington D.C. buildings, capturing additional savings with a first-of-its-kind integration strategy.

ABOUT THE LIBRARY OF CONGRESS

The Library of Congress (LOC), located in Washington, D.C., serves as the research library for the United States Congress and functions as the de facto national library of the United States. It also oversees copyright law through the U.S. Copyright Office and houses the Congressional Research Service.

BY THE NUMBERS



1,500

CONTROL
DEVICES
INSTALLED



69,309

FIXTURES
REPLACE OR
RETROFITED

PROJECT BACKGROUND

The Library of Congress is the largest library in the world, housing millions of books, films, videos, audio recordings, photographs, newspapers, maps, and manuscripts. It serves as the main research arm of the U.S. Congress and is home to the U.S. Copyright Office. With support from an Energy Savings Performance Contract through a major national Energy Service Company, the Library chose to upgrade its lighting systems to more energy-efficient technologies and implement networked lighting controls. Due to the sensitive environment of the Library, both the design and installation phases involved scheduling and security challenges. The project's goal was to deliver a high-performance lighting upgrade using the latest energy-efficient technologies.

Fun fact: Lighting accounts for up to 40% of a commercial building's electricity use—but switching to high-efficiency LED lighting and smart controls can cut that by more than half. That's where Envocore comes in. We specialize in turnkey lighting solutions that not only lower energy bills but also improve light quality, occupant comfort, and long-term sustainability.