

be ex lights, center, action!

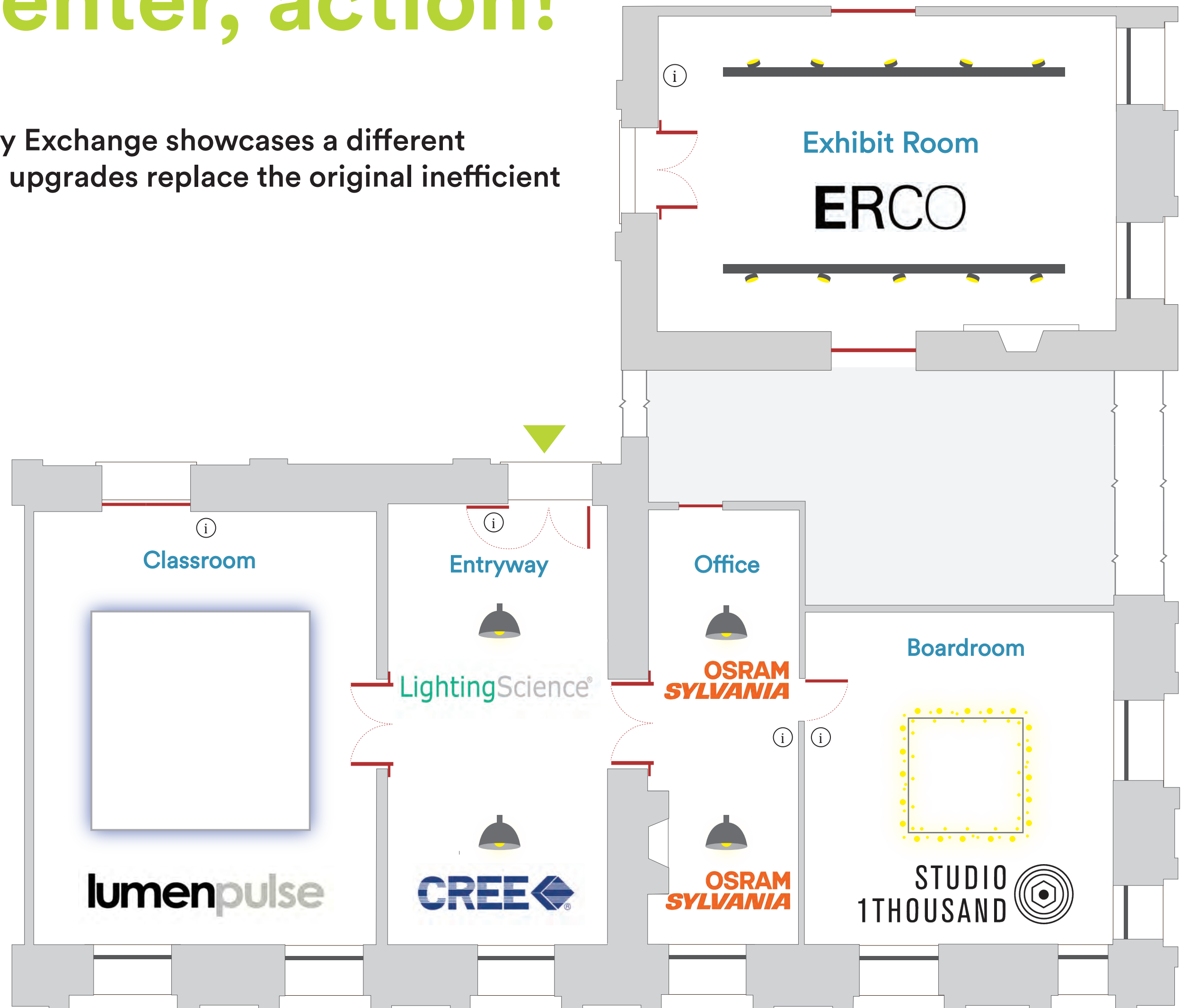
Each room of the Building Energy Exchange showcases a different efficient lighting solution. These upgrades replace the original inefficient lamps and fixtures.

Switching to more efficient lighting saves our center:

4,072 kWh
per year
in energy consumption

\$814
per year
in electrical costs

This simple retrofit saves **77%** in lighting energy and costs.



be ex lights, center, action!

Office

The simple upgrade to Osram Sylvania's LED bulbs saves 1,098 kWh and \$220 per year.

**OSRAM
SYLVANIA**

new light bulbs

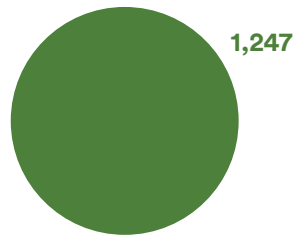
Each Osram Sylvania ULTRA LED bulb uses **12 watts**, lasts for **25,000 hours**, and emits **820 lumens**, equivalent to a 60 watt incandescent bulb.



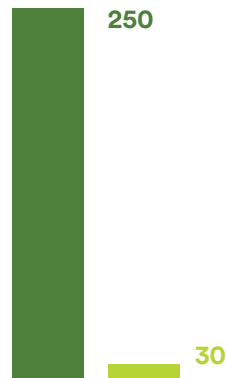
original light bulbs

The original bulbs were standard 100 watt incandescent bulbs.

savings



energy consumption (kWh/yr)



operational costs (\$/yr)



total savings from retrofit

■ before ■ after

be ex lights, center, action!

Entryway

The entryway showcases two LED replacement bulbs. The eastern fixture has bulbs from LightingScience, which save 1,173 kWh and \$234 per year.

LightingScience®

new light bulbs

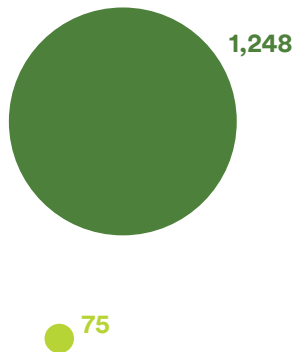
Each LightingScience A19 Omni, uses **12 watts**, lasts for **22.8 years**, and emits **800 lumens** of warm light.



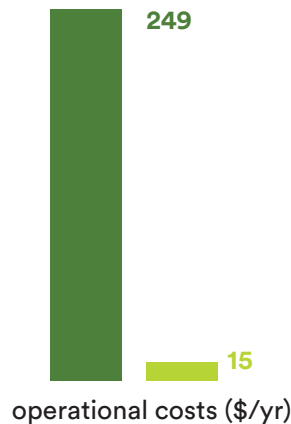
original light bulbs

The original bulbs were standard 100 watt incandescent bulbs.

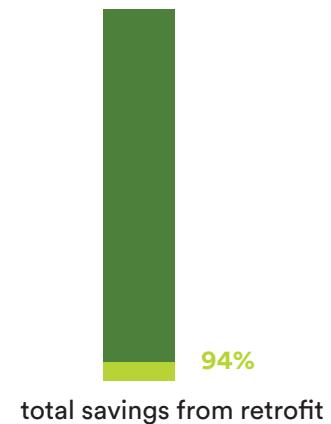
savings



energy consumption (kWh/yr)



operational costs (\$/yr)



total savings from retrofit

■ before ■ after

be ex lights, center, action!

Classroom

The multi-dimensional fixture by Lumenpulse saves 462 kWh and \$92 per year.

lumenpulse

new fixture

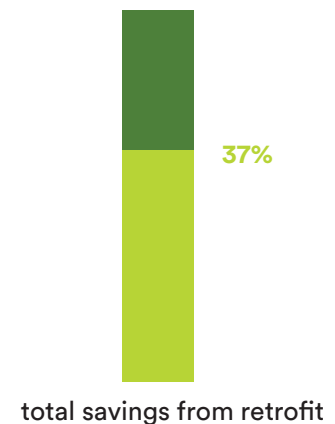
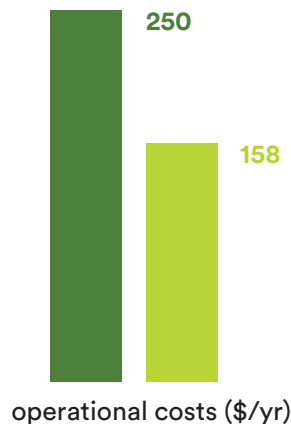
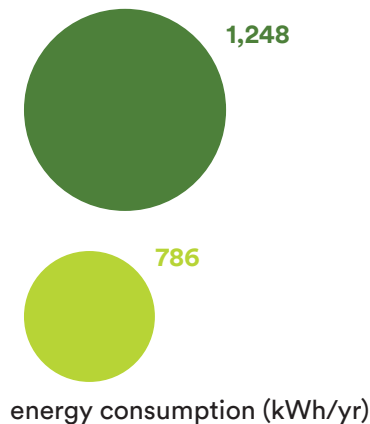
This customized Lumenpulse fixture includes LED luminaires. Each foot can be separately programmed to varying colors, intensities, and layouts. It uses **21 watts** per foot, and emits **61 lumens** per watt delivered. This fixture presents flexibility to match the varied use of the room.



original fixture

The original four fixtures each used four 100 watt incandescent bulbs.

savings



■ before ■ after

be ex lights, center, action!

Boardroom

Designed by New York City based Studio 1Thousand, this custom LED chandelier saves 150 kWh and \$30 per year.



new fixture

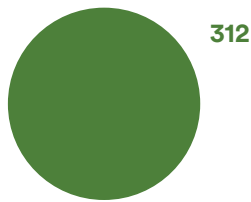
This unique LED fixture includes an array of individual light clusters with a light strip up light. It uses **13 watts** per foot, showcasing the integration of beauty and efficiency.



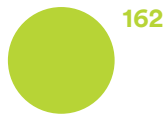
original fixture

The original fixture consists of a single pendant fixture with four 100 watt incandescent bulbs.

savings



312



162

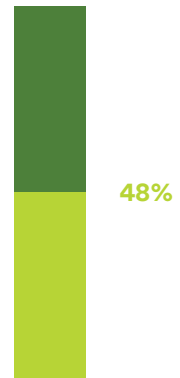
energy consumption (kWh/yr)



62

32

operational costs (\$/yr)



48%

total savings from retrofit

■ before ■ after

LED uplight

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Entryway

The entryway showcases two LED replacement bulbs. The western fixture has lamps from CREE, which save 1,189 kWh and \$237 per year.



new light bulbs

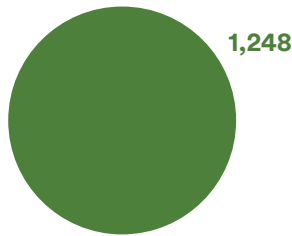
CREE's LED bulbs are powered by their Filament Tower Technology. Each bulb uses **9.5 watts**, lasts for **25,000 hours**, and emits **800 lumens**, equivalent to a 60 watt incandescent bulb.



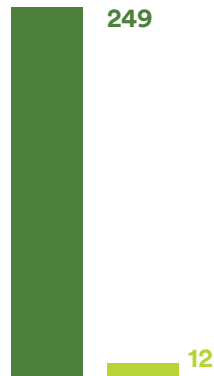
original light bulbs

The original bulbs were standard 100 watt incandescent bulbs.

savings



energy consumption (kWh/yr)



operational costs (\$/yr)



total savings from retrofit

■ before ■ after