

Better Light = Brighter Students

We help educators **save money** while improving the mood and focus of their students through environmentally friendly LED lighting upgrades.



Havern School
Annual Lighting Electricity Bill
Before Upgrade : **\$15,628**
After Upgrade : **\$4,290**



Monte Vista School District
Annual Lighting Electricity Bill
Before Upgrade : **\$109,949**
After Upgrade : **\$17,943**



Aspen Academy
Annual Lighting Electricity Bill
Before Upgrade : **\$69,975**
After Upgrade : **\$17,077**



Sheridan School District
Annual Lighting Electricity Bill
Before Upgrade : **\$266,042**
After Upgrade : **\$61,971**



Budgets are tight. Saving money is a big deal.

In 2019-2020, educators have to do more with less. You are always looking for ways to stretch your dollar and maximize the benefit for students and faculty. Often budget cuts mean making due with old equipment and trying to just make it last another year.

What if you could get brand new equipment (that performs flawlessly with a dependable decade-long warranty and) that provides drastically improved lighting over what you have now, while saving significant money? You can.

We specialize in LED lighting upgrades for schools. We improve lighting with brand-new, warrantied fixtures and lowered energy bills - saving you money every month and improving the quality of life for everyone in the building.

Dynamic LED lighting has been scientifically proven to improve the mood and focus of students, and decrease the affect of mood disorders.

Quality light is a game changer. Universities and schools, both public and private are upgrading.

Utilities are offering rebates and incentives that dramatically reduce the cost of upgrading. And while EOS can not guarantee rebates or grant projections (since our estimates are based on technical knowledge of lighting systems and utility company descriptions of rebate programs which they can revise or terminate at their sole discretion), we can get the utilities to lock-in and pre-approve rebates for your project so that any subsequent revision or reductions won't lower your award.

HIGHLIGHTED PROJECT #1

TOTAL UPGRADE COST : \$576,029
INCENTIVES/REBATES: -\$44,805
NET UPGRADE COST: \$531,224



SHERIDAN SCHOOL DISTRICT

Year: 2019

# OF FIXTURES:	3,978
# OF BUILDINGS:	11
PAY BACK:	2.60 Years
% OF ENERGY REDUCED*:	79.4%
ANNUAL SAVINGS:	\$204,071
LIFETIME SAVINGS:	\$5,647,340

*Percentage shown is the lighting-related portion of the customer's electricity bill.

HIGHLIGHTED PROJECT #2

TOTAL UPGRADE COST : \$302,662
INCENTIVES/REBATES: -\$39,734
NET UPGRADE COST: \$262,928



MONTE VISTA SCHOOL DISTRICT

Year: 2018

# OF FIXTURES:	2,305
# OF BUILDINGS:	7
PAY BACK:	2.86 Years
% OF ENERGY REDUCED*:	85%
ANNUAL SAVINGS:	\$92,006
LIFETIME SAVINGS:	\$4,488,071

*Percentage shown is the lighting-related portion of the customer's electricity bill.



Improved LED lighting directly improves student happiness, performance & well-being.

Since the early 2000's, both scientific and anecdotal evidence shows that students are happier in environments that are non-fluorescent and color temperature controlled.

*"According to a research summary of CFLs' effect on stress reactions, the spectral composition from CFL bulbs does not just suppress melatonin, but directly triggers a fight or flight response via hormones, biorhythm disruption, and stimulation of the brain's arousal center."**

Fluorescent lighting in classrooms has been demonstrated to increase anxiety, ADD and depression in students.



*Akira Yasukouchi and Keita Ishibashi, "Non-Visual Effects of the Color Temperature of Fluorescent Lamps on Physiological Aspects in Humans," Journal of Physiological Anthropology and Applied Human Science 24, no.1 (January 2005): 41-43.



CCT REMOTE CONTROL LED

Correlated Color Temperature allows educators to adjust the mood of a classroom by adjusting the color temperature. For some activities you may want a classroom at 5000K for bright and alert students other times you may want to shift it to 3000K to help students gain a sense of peace, calm and quiet.

CCT is now available on our high-quality commercial fixtures and can be controlled manually by switch or remotely by app, and are excellent for any classroom.

VARIABLE INTENSITY LED

Most educators are accustomed to their lights either being on or off. Variable Intensity LED fixtures provide intensity controls for maximum comfort, brightness or energy savings. Higher intensity creates brighter vibrant rooms while using more energy, and lower intensity gently dims the light, without flickering, for less energy usage. Combined with CCT controls, our modern fixtures can be used to create a comfortable lighting schema for any room at any time of day.

These fixtures are excellent for multi-purpose rooms, classrooms, and rooms for students with special needs.



HIGHLIGHTED PROJECT #3

TOTAL UPGRADE COST : \$132,359
INCENTIVES/REBATES: -\$37,129
NET UPGRADE COST: \$95,230



ASPEN ACADEMY

Year: 2018

# OF FIXTURES:	1,298
# OF BUILDINGS:	1
PAY BACK:	1.74 Years
% OF ENERGY REDUCED*:	76%
ANNUAL SAVINGS:	\$52,898
LIFETIME SAVINGS:	\$1,211,234

*Percentage shown is the lighting-related portion of the customer's electricity bill.

HIGHLIGHTED PROJECT #4

TOTAL UPGRADE COST : \$74,995
INCENTIVES/REBATES: -\$15,943
NET UPGRADE COST: \$59,052



HAVERN SCHOOL

Year: 2018

# OF FIXTURES:	370
# OF BUILDINGS:	1
PAY BACK:	5.21 Years
% OF ENERGY REDUCED*:	72.5%
ANNUAL SAVINGS:	\$11,338
LIFETIME SAVINGS:	\$487,339

*Percentage shown is the lighting-related portion of the customer's electricity bill.

HIGHLIGHTED PROJECT #5

TOTAL UPGRADE COST : \$103,300
INCENTIVES/REBATES: -\$25,404
NET UPGRADE COST: \$77,896



BOULDER COUNTRY DAY ACADEMY

Year: 2018

# OF FIXTURES:	285
# OF BUILDINGS:	1
PAY BACK:	2.72 Years
% OF ENERGY REDUCED*:	82.7%
ANNUAL SAVINGS:	\$28,682
LIFETIME SAVINGS:	\$1,323,077

*Percentage shown is the lighting-related portion of the customer's electricity bill.

Better Light = Safer Schools

Educators are faced with more safety challenges today. The sad truth is preparing for an emergency situation is now part of your strategy. More and more studies are being conducted to focus on helping schools improve their overall safety.

The best improvements to make are passive improvements, meaning once they are in place they just work. They make an instant improvement without any need for human operation. In every study, lighting has ranked near the top of the list for safety improvements. Intelligent bright lighting makes a huge difference in an emergency situation. Better light improves effectiveness of security cameras, building occupants respond faster and move to exits more quickly when buildings are well lit. Better light has been shown to improve conditions and overall effectiveness for first responders as well.



QUOTE FROM FACILITY EXECUTIVE MAGAZINE
APRIL 2019

“For many, efficiency is the catalyst for improving lighting infrastructure and leads districts to transition their traditional lighting to LED to help uncover greater savings. These updates allow school districts to redirect the savings towards addressing deferred maintenance or allocating to other budgets, such as security to help fund enhancements or new implementations. It’s important though for district leaders to understand that a connected lighting infrastructure can provide a myriad of opportunity for improvement in other areas, too.”

Connecting networked lighting to systems and technologies, such as cameras and sensors, offer additional benefits for school security and safety. With capabilities such as occupancy tracking, on/off dimming, and detecting security hazards, integrated safety and lighting solutions can be tailored to meet the needs of a school based on specific emergencies. For example, LED provides better light distribution, improving visual acuity to boost safety and security resulting in clear images from video surveillance cameras. Greater visibility may also mean that fewer cameras are needed, which can help lower project and operational costs because there are less systems to manage and maintain.”

Source:

<https://facilityexecutive.com/2019/04/safer-schools-intelligent-lighting/>



Do YOU want someone to guide you through the entire process?

3 simple reasons to choose us to help YOU.

We have a decade long warranty.

We believe our warranty is best-in-class. We don't use "fine print" exceptions and we don't retro-downgrade your coverage when you need it. We believe in a real warranty you can depend on.

We specialize in upgrading schools.

Upgrades are done quickly and efficiently with a focus on communication with staff to minimize impact on day to day school operations.

We provide a turnkey service.

1. We calculate the savings.
2. We build the fixtures.
3. We manage the project.
4. We complete the install.
5. We warranty everything.
6. We enable financing.
7. We provide annual state-of-the-upgrade reports.





HOW ACCURATE ARE OUR SAVINGS CALCULATIONS?

ACCURACY = INTEGRITY

Matrix Design Group conducted two years of ongoing studies to monitor projected savings as outlined in our proposal for the new efficiency system in Pueblo. The final results of the 24-month study showed a +/- variance of less than 2% of our forecast. **The final six months showed that our savings projections were understated by 5%.**



ACCURACY: SAVINGS CALCULATIONS ARE ON TARGET

SUMMARY: WE UPGRADED THE CITY OF PUEBLO WEST AND A THIRD PARTY FOUND OUR PREDICTED SAVINGS TO BE UNDERSTATED BY 5%



This project was directed and monitored by Matrix Design Group (a \$600mm/year engineering firm, headquartered in Colorado Springs, CO), retained by the City of Pueblo to oversee and monitor our lighting upgrade. This project included the replacement and/or retrofit of all existing light fixtures, internal and external, in seventeen (17) city-owned buildings. This project created a 43% reduction of cost and operating expenses while increasing light levels by 80%. Completed in 2011, **this project has had zero failures to date.**

Location: Colorado **Year:** 2011

MEASURED & AUDITED BY THIRD PARTY:
MATRIX DESIGN GROUP