

ORION WILL CHANGE THE WAY YOU  
THINK ABOUT A LIGHTING COMPANY.

# CASE STUDY

## EDUCATION

Orion's line of LED lighting fixtures are durable enough to meet facility needs and provide a safe environment for students and staff, while saving operating costs that are critical when facing limited budgets.

# WHY ORION



## LOWER COST INSTALL

- Modular, plug and play design
- Lower overall labor costs
- Install more fixtures in less time



## 2-3 WEEK SHIP

- Quick ship, 10 days
- Overnight shipment of additional materials



## CLEAN JOB-SITE MANAGEMENT

- Fixtures in trays
- Packaging doubles for recycling
- No need for a dumpster
- Debris-free install



## TRUSTED AMERICAN PARTNER

- Clear warranties with excellent coverage
- Quality manufacturing base with domestic and international partners
- 40 years retrofit experience

From the very first handshake to the final fixture installed, our energy is the difference we bring to every retrofit. Ingenuity guides us to new solutions. Dedication helps you at every step. And our products illuminate your world in ways you might not have imagined.

## VISION

Orion will change the way you think about a commercial and industrial lighting company. Full service offerings, friendly and competent staff, an unexpected customer experience, and the best performance around; giving you a solution that will make you a hero in your organization.

## MISSION

Lead the transformation of commercial and industrial facilities to solid state LED lighting technology and drive financial, environmental, and workspace benefits, while dominating the building retrofit market by providing more profit for the installer and more value for the end user.

## VALUE

### ALLY IN ACCOUNTABILITY

#### EXPERTISE

Our relationships go beyond shipping you the latest fixture. Your goals become our goals, which means we share responsibility to help you keep your promises and make your project successful.

### PRACTICAL INGENUITY

#### PRODUCT

When you've been on the job site or up on the lift, you build in-the-trenches know-how. That expertise inspires more creative products that maximize real-world performance for your lighting investment.

### UNCOMMON DEDICATION

#### SERVICE

Our customers tell us we have more capable teams that deliver results, not just on paper, but in the day-to-day work of the people we serve. Some say it's our Midwestern roots; we think it's our energy.

## Efficient Lighting for Effective Education

### OVERVIEW

Your facilities face limited budgets and many competing priorities. It is essential that you are a good steward of the resources you have. Replacing your existing, inefficient lighting can significantly reduce your operating and maintenance costs, and those funds can be redeployed for other initiatives to benefit your students. Since LED fixtures have significant longer lives than those you are replacing, there will be fewer disruptions in the classrooms to replace bulbs or repair fixtures. Whether an office, a classroom or a gymnasium, the lighting in your facility directly impacts the performance of your students and your staff. Light quantity, quality and control are critical to their comfort and happiness.



### PROJECT BENEFITS

- Improved student and staff productivity and morale by improving lighting.
- Reduced classroom disruptions and spend less time repairing fixtures and replacing burnt out lamps.
- Reduced maintenance costs with some of the longest lasting fixtures on the market.
- Lower your facility's operating costs by reducing its energy consumption and usage.
- Reduced OSHA/waste concerns by eliminating need for fluorescent lamp disposal.
- Fixtures designed to deliver optimal light levels to improve comfort and performance in your classrooms.
- Durable fixtures designed for hundreds of mounting application that can withstand the unique challenges of gymnasium environments.
- Industry leading fixture performance that ensures user comfort by increasing light levels and reducing glare.
- A lighting system that is compatible with most commercially available controls, allowing users to adjust light to meet the needs.
- Reduced your facility's environmental impact by reducing its energy usage.



The map below displays Orion's projects with Education customers in the contiguous United States.





## Chicagoland Laborers' District Council Training and Apprenticeship Fund

*Training...Empowerment with a vision to build a better future*

Chicagoland Laborers –  
Carol Stream Training Facility

Carol Stream, IL

25 Employees

Partner:  
Sustainable Lighting Solutions

[www.chicagolaborers.org](http://www.chicagolaborers.org)

Education



BEFORE



AFTER

"I have never really thought of lighting as part of education, and how it impacted the learning environment until we went from our yellow lights to the Orion LED lights."

Keith Vitale,  
Training Director

The Chicagoland Laborers' District Council Training and Apprenticeship Fund (hereafter Chicagoland Laborers) began in the summer of 1986. It was designed to provide something vital: training and education for Laborers working under the Chicagoland District Council collective bargaining agreement. The staff is open to developing training courses to meet the specific needs of either the Contractor or Union membership. It is a place where people work together to learn and grow with the ever-evolving industry standards.

The Carol Stream facility opened in 1990 to support the needs of Laborers in a nine county region. The site trains approximately 4,000 – 5,000 people per year by offering day, night and weekend classes, and operating 50 hours per week on average.

### CHALLENGE

"We need people to want to come back, and to do that we need to provide a positive learning environment." In discussing a recent project at his facility, Keith Vitale, Training Director for the Chicagoland Laborers' Carol Stream, Illinois training center highlighted a key challenge facing educational and training facilities, namely the impact that lighting plays in the learning environment. "You can see it on our participants' faces. Bright lights enhance rooms, but walking into a dim, dingy room, isn't very motivating."

Recognizing that their lighting must be improved during the recent renovation of their 26-year-old facility, the Chicagoland Laborers also identified another challenge facing education retrofit projects – how to upgrade their facility without disrupting classes. Or as Vitale put it, "we were not closing the school to do a lighting project." So the Chicagoland Laborers were faced with identifying a way to upgrade their lighting system while co-existing with the educational and training services that they provided. This was particularly important to them, for as Vitale explained, "if one of our members come here for training and they do not feel that we provided a good product, they won't come back."

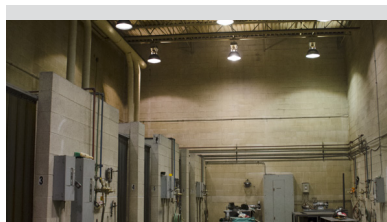
### SOLUTION

Faced with upgrading an interior lighting system that served classrooms, cafeterias and training bays, as well as offices, conferences rooms, hallways and storage areas, Chicagoland Laborers turned to Sustainable Lighting Solutions ("SLS") to help them identify the best system to meet their facility's particular lighting needs. SLS showed them



"We had looked at other options but, when we saw the Orion fixtures, we stopped. They were aesthetically pleasing and they fit our décor, and when we saw how easy it was to install them, it was an easy decisions to go with the Orion lights."

Keith Vitale,  
Training Director



BEFORE



AFTER

## PRODUCTS USED

APOLLO® LED LDR Troffer  
Retrofit L-Series (32w) | LDR®

Compact Modula High Bay |  
CM6 T8

a number of options, but the Chicagoland Laborers chose Orion Lighting's APOLLO® LED LDR® Troffer Retrofit and Orion's Fluorescent Compact Modular High Bay, as well as a few LED downlights and fluorescent retrofit kits to complete the interior project. The interior lighting project was projected to reduce a site's electrical demand by 48.4 kW or almost 60% of their existing demand. The project will save them over 190,000 kWh, which should reduce their ComEd electric bill by over \$20,000 per year. When asked why they chose Orion, Vitale answered, "we had looked at other options, but when SLS showed us the Orion fixtures, we stopped. They were aesthetically pleasing, fit our décor, and when we saw how simple it was to install them, it was an easy decision."

## RESULT

The Orion products chosen by SLS met the visual, design and performance requirements that the Chicagoland Laborers had set forth for the Carol Stream Training retrofit project. The products also allowed SLS's installation team to limit facility disruptions during the retrofit which was critical to the Union. As Vitale explained, "The installation was seamless. We were able to operate as if they were not even there with zero interruption to classes." The Chicagoland Laborers was also impressed by Orion's product packaging and quick shipping approach (two to three weeks) and how they helped ease the installation process for SLS. Vitale explained that, "the installation was so organized. Everything was separated and ready to go when the installers got to the site." Orion's fixtures are packaged in trays for easy removal from the package. In addition, the package doubles as a recycling vessel, which makes for a debris-free install and cleanup.

The Chicagoland Laborers staff and students were impressed by how quickly SLS could retrofit a space. Often during the project, whole classrooms were able to be retrofitted during the time participants were working in a training bay. The students would leave the room for a field training exercise, and during that time SLS would replace the 9-10 lights in the room. The student reaction was immediate, "they thought the lights were dimmed before their field experience and had been brought up to full light upon their return to the classroom," Vitale said.

The Orion product helped demonstrate the importance of lighting to learning, Vitale said, and he added that now he considers himself a strong proponent of the impact that lighting can have on students' performance. The impact is obvious, he said, "good lighting makes our students more attentive and more eager to learn. It can help make students feel more comfortable and safer, especially if they have not been in a classroom in a while." I have never really thought of lighting as part of education, and how it impacted the learning environment until we went from our yellow lights to the Orion LED lights."

Enhancing the classroom lighting led to additional classroom improvements at the Chicagoland Laborers training facility. LCD projectors were replaced with televisions used by instructors to present training and education. The old LCD projectors required the trainers to shut off the lights, which created the potential for classroom disruption. They use televisions to show the same video materials, and the lights stays on. As Vitale explained, "keeping the lights on helps keep students awake and alert, which facilitates our learning methodologies and our student projects."

The Chicagoland Laborers appreciate the significant impact lighting had on bringing their 26-year-old building back to life. Moreover, the Chicagoland Laborers is seeing significant tangible benefits from the project. Vitale mentioned that since the project has been installed, "our utility savings are tracking at 30% per month, as compared with the 10-15% that we had planned to see."

When the education improvements and energy saving were combined, the Chicagoland Laborers were prompted to work with SLS to replace the four-year-old lighting in their Chicago training facility. As Vitale put it, "the transformation here was so profound, it made it an easy decision to replace the lights in the new building."



## Chicagoland Laborers' District Council Training and Apprenticeship Fund

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Education



BEFORE



AFTER

"The lights make more energy in the building. I get here early in the morning, often times before the sun comes up, and when you turn the lights on, they almost feel like sunlight."

Richard Schumann  
Homer Street  
Administrator

The Chicagoland Laborers' District Council Training and Apprenticeship Fund began in the summer of 1986. It was designed to provide something vital: training and education for laborers working under the Chicagoland District Council collective bargaining agreement. The staff is open to developing training courses to meet the specific needs of either the contractor or Union membership. It is a place where people work together to learn and grow with the ever-evolving industry standards.

The Homer Street facility was opened in 2009 as an alternative location for members to receive training. The site trains approximately 3,000 people per year by offering day, night and weekend classes, and operating 50 hours per week on average.

### CHALLENGE

"Some of our members can be uncomfortable with the training process, and when you add in a place that is not conducive to learning, it makes our job harder," explained Richard Schumann, the administrator for the Chicagoland Laborer's Training and Apprenticeship Fund's Homer Street facility. Schumann highlighted one of the key challenges facing all educational facilities – student engagement, which is critical to educational success. "We have people coming in after an eight hour shift for a four to six hour training session. We need to keep them engaged."

The Union's existing lighting system was very dull and, according to Schumann, it counteracted their trainers' efforts to create the best atmosphere for learning. As Schumann put it, "when the lights are dull, it is hard to learn." The Union realized that they needed to upgrade their lighting system. Although the building was only seven years old, their lights were not creating an engaging learning environment and were already becoming costly to operate and maintain. They also needed to upgrade their facility without disrupting educational and training services.

### SOLUTION

The Chicagoland Laborers selected Sustainable Lighting Solutions ("SLS") to design a lighting system upgrade that made their facility more engaging and reduced their operating costs. SLS proposed replacing the facility's existing T8 Troffers with Orion Lighting's APOLLO® LED LDR® Troffer Retrofit Fixtures and their Metal Halide High Bays with Orion's Compact Modular Fluorescent High Bay fixtures. The units are designed to significantly reduce the cost of operating and maintaining the training facility's lighting

## PRODUCTS USED

APOLLO® LED LDR Troffer  
Retrofit L-Series (32w) | LDR®

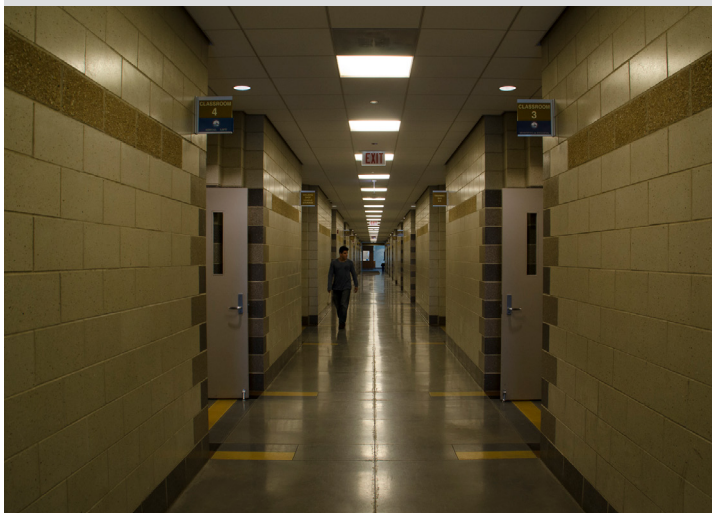
Compact Modula High Bay |  
CM6 T8

system. The system was projected to save over 160,000 kWh, leading to over \$17,000 per year in energy savings. The Union chose SLS and Orion's product based on the success they had seen when SLS retrofitted their Carol Stream, IL facility. Additionally, SLS's installation flexibility, provided in part by Orion's quick shipping approach (two to three weeks) and product packaging for easy removal from trays that doubled as recycling containers, was also a key component in choosing to proceed with the project. In fact, as Schumann noted, "SLS's installation team worked around the classrooms that were in use. Half the time we did not even know they were in the building." Moreover, Orion's APOLLO® LDR® products are the first patented LED troffer retrofit contained within the door frame and can be typically installed in under two minutes per fixture. These product features helped SLS's team work quickly and be flexible in their installation, which allowed the Union to retrofit their facility without impacting their training schedule.

## RESULT

The retrofit project delivered in its primary objective of improving the classroom learning environments. "The lighting project has delivered noticeable improvements in student engagement," Schumann said, "and the difference in classroom is 90% of what we needed." The training staff also feels that the overall atmosphere in the facility has improved and students seem to have even more enthusiasm thanks to the new lighting. Additionally, the facility is already seeing a measurable reduction in the electrical consumption and the electric bill.

When asked what he would tell other education facilities considering a lighting upgrade, Schumann concluded that "the experience has been well worth it, not just because of the cost savings, but because of all the benefits – especially the improvements to the learning environment."



BEFORE



AFTER





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## Goshen Local School District in Ohio Invests Energy Savings from LEDs to Improve Academic Program

By

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**Orion Energy Systems**, a leading designer and manufacturer of high-performance, energy-efficient retrofit lighting platforms, announced Goshen Local School District in Goshen, Ohio, recently installed over 3,900 Orion **LED Troffer Retrofit (LDR)** fixtures. This installation, completed by C.M. Mockbee, marks the first complete school system in Ohio to be retrofitted with the LDR product line. Goshen Local School District is a Pre K-12 public school district serving 2,800 students high school, middle school and two elementary schools.

“Investing in energy saving lighting allowed us to save taxpayer dollars that can be reinvested in the students of our school community, to make a difference in their education,” said Darrell Edwards, Superintendent, Goshen Local School District.

Working with an energy consultant, Goshen leadership identified changes that could give the district the faster return on investment and **LED lighting** quickly rose to the top of the list. Other factors driving the aggressive savings of the project included the availability of compelling rebates, reduced labor by eliminating the need to replace fluorescent ballasts, improved HVAC efficiency through cooler LED fixtures, and the use of sensors and controls to further reduce energy use. Duke Energy awarded Goshen Local School District with a SmartSaver incentive check for \$130,160 for their energy efficiency upgrade.

“The return on the investment was a huge part of our decision-making. We looked at all of the items our district needed, from a new roof to weight equipment for the kids to new technology. We were able to contract for those projects and more because we changed the lights, from the energy savings we achieved by moving to Orion LED lighting,” said Todd Shinkle, Treasurer, Goshen Local School District. “We expected to save \$61,000 annually, and in actuality it is on pace to be much closer to \$100,000, and that savings helped us make a real impact for our students, and do it almost debt-free.”

Previously Goshen had installed Orion fluorescent fixtures in their gymnasium, and because of the positive track record, Goshen returned to Orion when it was time to retrofit the rest of the school facilities to LED. The district chose to stay with Orion not only for the performance, but also for the ease of installation and aesthetics.

Since its introduction in 2014, the Orion LED Troffer Retrofit (LDR) suite created a new standard not only for design, performance and energy-efficiency, but also a breakthrough in the ease of installation in troffer retrofit from fluorescent to LED. The patented suite reduces cost on the job site because it ships fully assembled, is adjustable to fit existing troffers, and installs in less than two minutes with no tools other than a ladder, compared to more than 10-minute installs for many competitive fixtures.

“Before we were not only wasting energy, but also had inferior, high-maintenance products lighting our schools. Now with Orion’s fixtures, we’re able to be excellent stewards of our districts’ limited dollars. We have a more professional and inviting learning environment, with happier students and teachers,” continued Shinkle. “Schools districts should not assume they can’t afford to upgrade to LED lighting. If you look at what you are spending now on energy and maintenance – the amount of time it takes to change the ballast, and how often you have to change them – quickly you’ll find it is very cost-effective to move to LED right now.”

“The LDR suite is one of our best-selling LED products because it offers a triple threat: great design, fast delivery and installation, and reliable, energy-efficient performance,” said John Scribante, Chief Executive Officer of Orion Energy Systems. “Goshen’s experience is now being replicated across the US, with school districts in practically every state looking to the lights as an innovative way to save energy while improving their academic programs.”

Keywords: LED luminaries Goshen Local School District academic program

LINKS:

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Energy Efficiency

## Ohio District Flips the Switch on LED Lighting To Reduce Energy Costs

- By **Joshua Bolkan**
- 11/05/15

Ohio's **Goshen Local School District** recently retrofitted its buildings with LED lights for a projected energy cost savings of \$61,000 each year.

The district worked with an energy consultant to find upgrades with a fast return on investment. LED lighting topped the list by driving "aggressive savings" through factors such as "the availability of compelling rebates, reduced labor by eliminating the need to replace fluorescent ballasts, improved HVAC efficiency through cooler LED fixtures and the use of sensors and controls to further reduce energy use," according to a news release.

"The return on the investment was a huge part of our decision-making. We looked at all of the items our district needed, from a new roof to weight equipment for the kids to new technology. We were able to contract for those projects and more because we changed the lights, from the energy savings we achieved by moving to Orion LED lighting," said Todd Shinkle, treasurer at Goshen Local School District, in a prepared statement. "We expected to save \$61,000 annually, and in actuality it is on pace to be much closer to \$100,000, and that savings helped us make a real impact for our students, and do it almost debt-free."

After settling on the lighting upgrade, the district partnered with **CM Mockbee**, which installed more than 3,900 Orion LED Troffer Retrofit (LDR) fixtures. Upon completion, the 2,800-student district was awarded a \$130,160 **Smart Saver** incentive check from **Duke Energy**.

"Before we were not only wasting energy, but also had inferior, high-maintenance products lighting our schools. Now with Orion's fixtures, we're able to be excellent stewards of our districts' limited dollars. We have a more professional and inviting learning environment, with happier students and teachers," added Shinkle. "School districts should not assume they can't afford to upgrade to LED lighting. If you look at what you are spending now on energy and maintenance — the amount of time it takes to change the ballast, and how often you have to change them — quickly you'll find it is very cost-effective to move to LED right now."

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# Saving energy earns Goshen Schools money from Duke

3:37 p.m. EDT August 18, 2015



(Photo: Thanks to Sally Thelen)

Duke Energy awarded Goshen Local School District with a Smart\$aver incentive check in the amount of \$130,160 for recent energy efficiency upgrades.

The district installed energy efficient LED lighting in all four of Goshen's schools. The project will save the school district money by reducing energy costs and minimizing maintenance required on the equipment.

"Goshen Local School District has proven they are committed to going the extra mile to provide for their students," said Warren Walker, Duke Energy community relations manager. "We are proud to partner with them through the Smart\$aver program to help them save crucial budget dollars."

Duke Energy's Smart\$aver Incentive program allows businesses to receive cash for installing high efficiency lighting, HVAC, pumps and other qualifying equipment. The use of the energy efficient equipment enables businesses to improve their bottom line by reducing energy consumption. And Smart\$aver incentives help lower the costs associated with the upgrades.

"Investing in energy saving lighting and HVAC projects allows us to save taxpayer dollars that can be reinvested in the students of our school community, to make a difference in their education," said Darrell Edwards, superintendent, Goshen Local School District.

Businesses interested in learning more about the Duke Energy Smart\$aver Program can go to: [www.duke-energy.com](http://www.duke-energy.com/ohio-business/smart-saver-incentive-program.asp) (<http://www.duke-energy.com/ohio-business/smart-saver-incentive-program.asp>).

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## LED Door Retrofit Offered

January 13, 2014 By William Opalka



### Orion Energy Systems

says it is offering the industry's first complete suite of LED Door Retrofit (LDR) products. The LDR is completely assembled within the door frame.

The Orion LDR system reuses the original housing of the existing troffer and installs quickly. There are an estimated 964 million troffers currently in the US lighting market.

The Orion LDR product suite is designed to retrofit most existing 2-foot-by-2-foot and 2-foot-by-4-foot fluorescent troffers and is

available in a variety of lens styles, wattages and color temperatures.

The Orion LDR system offers the following:

- It can be retrofit into existing fluorescent troffers within minutes with no disruption to ceiling tiles and no need to remove existing fixtures.
- The LDR can reduce a company's energy consumption by up to 70 percent.
- The LDR system decreases costs associated with maintenance, freeing up maintenance teams to focus on tasks other than light bulb replacement.
- The LDR provides a volumetric, even-distribution of light with quality color rendering and is available in multiple color temperatures to accommodate end-user needs. Compared to fluorescent lighting, the LDR system generates less heat and, therefore, has a positive impact on HVAC requirements.

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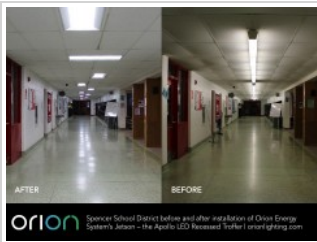
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# Orion Wins School District Contracts, Increases Chances for Incentives

August 31, 2015 By Carl Weinschenk



Several school districts nationwide have recently reduced their maintenance cost and energy use while improving the quality of light in the classroom and becoming eligible for higher rebates and incentives by installing energy efficient retrofit lighting platforms.

Orion Energy Systems, a manufacturer of retrofit lighting platforms, says its lighting solutions have been installed in the Chula Vista School District in California, the Webster Groves School District in Missouri, and the School District of Spencer in Wisconsin.

Orion says its Apollo LED Recessed Troffer, known as the Jetson, is an ideal upgrade for schools and other public sector facilities seeking to replace energy-consuming fluorescent troffer fixtures with high efficiency LED light sources because it is designed specifically to maximize rebate and incentive potential.

Mueller Electric recently completed the retrofit at the School District of Spencer. This included upgrading all of the school's 1200 legacy T8 fluorescent troffers to the Jetson, making the school eligible for higher rebates (compared to competitive retrofit products) from Focus on Energy, the Wisconsin investor-owned utilities' statewide energy efficiency program, Orion says.

Orion has also successfully vied for contracts to complete retrofits on Veterans Affairs' hospitals. Last May, the company received a contract award of about \$700,000 from a Veterans Affairs hospital in Virginia. Orion is upgrading the location's fluorescent fixtures with its LED Troffer Retrofit product.

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# Orion LED Retrofit Lighting Delivers Maintenance, Energy Savings and Rebates for School Districts

 [www.businesswire.com/news/home/20150831005324/en/Orion-LED-Retrofit-Lighting-Delivers-Maintenance-Energy](http://www.businesswire.com/news/home/20150831005324/en/Orion-LED-Retrofit-Lighting-Delivers-Maintenance-Energy)

MANITOWOC, Wis.--(BUSINESS WIRE)--**Orion Energy Systems, Inc. (NASDAQ: OESX)** a leading designer and manufacturer of high-performance, energy-efficient retrofit lighting platforms, today announced several school districts nationwide have selected Orion lighting solutions to reduce their maintenance costs and energy use while improving the quality of light in the classroom. Recent installations include Chula Vista School District in California, Webster Groves School District in Missouri, and the School District of Spencer in Wisconsin.

The Orion LED Troffer Retrofit suite, granted a patent earlier this year, has become a favorite in educational facilities due to the attractive design, optimized light delivery, maintenance-free performance, and under two-minute install, which provides faster overall project completion and minimizes the disruption of class activities.

The **Orion Apollo LED Recessed Troffer, known as the Jetson**, is an ideal upgrade for schools and other public sector facilities seeking to replace energy-consuming fluorescent troffer fixtures with high efficiency LED light sources. The Jetson is designed specifically to maximize rebate and incentive potential.

Mueller Electric recently completed a comprehensive retrofit project at the School District of Spencer, which included upgrading all of the school's 1200 legacy T8 fluorescent troffers to the Jetson in less than five days with no disruption to class or work schedules. Spencer's use of the Jetson also made the school eligible for higher rebates, compared to competitive retrofit products, from Focus on Energy, the Wisconsin investor-owned utilities' statewide energy efficiency program, due to the Jetson's patented design and UL Luminaire status.

"We were spending way too much maintaining the existing lights and needed to find a better cost alternative. The reduction in maintenance is huge for us as well as the projected energy savings. Now the maintenance crew can focus on higher-need projects in the schools. We anticipate saving 50 percent on our lighting energy usage, which is a big deal," said Michael Enderas, Superintendent of the School District of Spencer. "We did not expect the new LED lights to get installed that quickly and we couldn't be happier. It was painless for us, and the new fixtures look so much better. Our staff and students went home and came back to classrooms with a more alert and clean atmosphere that is more conducive to learning. Everyone was excited by the dramatic change."

"Orion's quick delivery and ease of installation allowed for maximum productivity across the entire project. We were able to coordinate efforts on multiple fronts, from material handling to cleaning crews, so the installers could work as efficiently as possible and avoid any interference with the school's daily operations," said Bill Mueller, Principal of Mueller Electric.

"Demand for the Jetson and our full LED Troffer Retrofit suite continues to grow as more educational facilities seek to reduce their maintenance and energy costs while enhancing the learning environment for their students," said John Scribante, Chief Executive Officer of Orion Energy Systems. "These recent installations exemplify the growing demand for Orion LED retrofit projects in education: the key differentiator being our ability to work closely with our partners and customer to deliver a high-quality, non-invasive, efficient lighting solution under a very tight timeline with maximum return."

## About Orion Energy Systems

Orion is leading the transformation of commercial and industrial buildings with state-of-the-art energy efficient lighting systems and retrofit lighting solutions. Orion manufactures and markets a cutting edge portfolio of products

encompassing LED Solid-State Lighting and high intensity fluorescent lighting. Many of Orion's 100+ granted patents and pending patent applications relate to lighting systems that provide exceptional optical and thermal performance, which drive financial, environmental, and work-space benefits for a wide variety of customers in the retrofit markets.

## Community Consolidated School District 180

### Burr Ridge CCSD #180

Burr Ridge, Illinois

Replaced legacy lighting system consisting of metal halide and T12 fixtures with Orion's Compact Modular T8 fixtures.

#### Project Metrics

Annual Cost Savings	<b>\$12,596</b>
Annual Kilowatt Hour Reduction	<b>118,817</b>
Load Reduction	<b>40.5 kW</b>
Annual Carbon Dioxide Reduction	<b>72 Tons</b>



Before



After



### Creative Learning Two Rivers, WI

#### Project Scope

Replace legacy lighting system consisting of T12 fluorescent fixtures with Orion's T8 Fluorescent Conversion and Kit fixtures with standard motion control technologies.

#### Project Economics

Displaced Energy:	38,247 kWh
Displaced Capacity:	11.05 kW
Annual Cost Reduction:	\$4,054
Light Level Improvement:	N/A

#### Environmental Impact

Carbon Dioxide Emissions Displaced:	25 tons/year
Acres of Trees Planted (Equivalency):	7 Acres



Before



After





## Irvine Valley College Irvine, CA

### Project Scope

**Interior:** Replace legacy lighting system consisting of Metal Halide fixtures with Orion's T8 Fluorescent Compact Modular High Bay fixtures.

**Exterior:** Replace legacy lighting system consisting of Metal Halide fixtures with Orion's T5 Fluorescent Exterior fixtures.

### Project Economics

Displaced Energy:	243,804 kWh
Displaced Capacity:	76.42 kW
Annual Cost Reduction:	\$37,789
Light Level Improvement:	N/A

### Environmental Impact

Carbon Dioxide Emissions Displaced:	158 tons/year
Acres of Trees Planted (Equivalency):	45 Acres



Before



After



**"Orion is an example of how energy efficiency and environmentalism can be combined into one great cost-effective idea."**

Tony Fessler – General Counsel,  
Lakeland College – Sheboygan, WI

### Project Scope

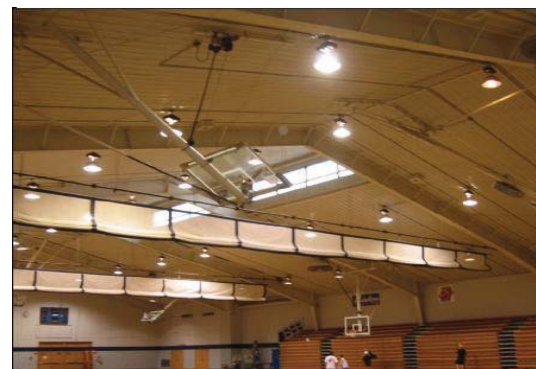
Replace legacy lighting system consisting of High Intensity Discharge fixtures with Orion's T8 Fluorescent Compact Modular High Bay fixtures.

### Project Economics

Displaced Energy:	102,339 kWh
Displaced Capacity:	19.45 kW
Annual Cost Reduction:	\$5,222
Light Level Improvement:	N/A

### Environmental Impact

Carbon Dioxide Emissions Displaced:	66 tons/year
Acres of Trees Planted (Equivalency):	19 Acres



Before



After







**"The new lighting system is great. It is a much more even light, more like daylight."**

Timothy Weis – Vice President – Business and Finance  
Quincy University – Quincy, IL

#### Project Scope

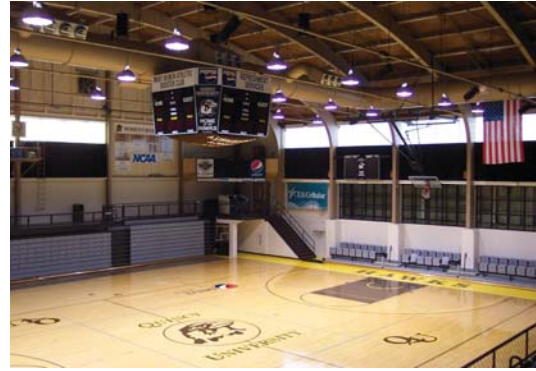
Replace legacy lighting system consisting of High Intensity Discharge fixtures with Orion's T5 Gym and T8 Fluorescent Compact Modular High Bay fixtures.

#### Project Economics

Displaced Energy:	204,385 kWh
Displaced Capacity:	28.83 kW
Annual Cost Reduction:	\$12,263
Light Level Improvement:	Maintained existing light levels (125 fc)

#### Environmental Impact

Carbon Dioxide Emissions Displaced:	124 tons/year
Acres of Trees Planted (Equivalency):	38 Acres



Before



After

## Milano ISD

**"We save thousands a year in electrical bills and our halls are full of light. We have no buzzing of bulbs, safety covers have been added and the lights come on instantly in our gym. Thanks for a great job."**

Lindy Robinson – Superintendent  
Milano ISD – Milano, TX

#### Project Scope

Replace legacy system consisting of High Intensity Discharge and T12 Fluorescent fixtures with Orion's Compact Modular T8 Fluorescent High Bay fixtures with standard motion control technologies.

#### Project Economics

Displaced Energy:	82,124 kWh
Displaced Capacity:	38.5 kW
Annual Cost Reduction:	\$9,026
Light Level Improvement:	51.8% (27 to 41 avg. fc)

#### Environmental Impact

Carbon Dioxide Emissions Displaced:	50 tons/year
Acres of Trees Planted (Equivalency):	15 Acres



Before – 27 Average Foot-candles



After – 41 Average Foot-candles



## Saint Rita of Cascia High School Chicago, IL

### Project Scope

Replace legacy lighting system consisting of Metal Halide fixtures with Orion's T8 Fluorescent Compact Modular High Bay fixtures.

### Project Economics

Displaced Energy:	19,278 kWh
Displaced Capacity:	5.51 kW
Annual Cost Reduction:	\$1,542
Light Level Improvement:	N/A

### Environmental Impact

Carbon Dioxide Emissions Displaced:	12 tons/year
Acres of Trees Planted (Equivalency):	4 Acres



Before



After



## Kewaskum School District

**"We like the instant on and instant off capability because are gyms are used a lot and we no longer have to wait for the lights to warm up. Before installing Orion's technology, we had kept lights on all day so we wouldn't have to wait for them to warm up."**

Bob Ellis – Supervisor of Buildings and Grounds  
Kewaskum School District – Kewaskum, WI

### Project Scope

Replace legacy lighting system consisting of High Intensity Discharge fixtures with Orion's T8 Fluorescent Compact Modular High Bay fixtures.

### Project Economics

Displaced Energy:	36,560 kWh
Displaced Capacity:	12.0 kW
Annual Cost Reduction:	\$2,157
Light Level Improvement:	N/A

### Environmental Impact

Carbon Dioxide Emissions Displaced:	24 tons/year
Acres of Trees Planted (Equivalency):	7 Acres



Before



After







**“We were pleased to see that they were able to deliver an even larger return on investment with the already positive environmental impact of the new lighting.”**

Liz Kane – Business Manager  
Plymouth School District – Plymouth, WI

#### **Project Scope**

Replace legacy lighting system consisting of High Intensity Discharge and T12 fluorescent fixtures with Orion T8 Fluorescent Company Modular and Conversion Kit fixtures.

#### **Project Economics**

Displaced Energy:	808,581 kWh
Displaced Capacity:	333.0 kW
Annual Cost Reduction:	\$49,922
Light Level Improvement:	N/A

#### **Environmental Impact**

Carbon Dioxide Emissions Displaced:	523 tons/year
Acres of Trees Planted (Equivalency):	148 Acres



Before



After



### **Saint Mary School Charlevoix, MI**

#### **Project Scope**

Replace legacy lighting system consisting of High Intensity Discharge fixtures with Orion's T8 Fluorescent Gymnasium fixtures.

#### **Project Economics**

Displaced Energy:	10,460 kWh
Displaced Capacity:	5.23 kW
Annual Cost Reduction:	\$1,046
Light Level Improvement:	56.5% (23 to 36 avg. fc)

#### **Environmental Impact**

Carbon Dioxide Emissions Displaced:	7 tons/year
Acres of Trees Planted (Equivalency):	2 Acres



Before – 23 average foot-candles



After – 36 average foot-candles



## St. John Lutheran School

**"Our old gym lights took about six to seven minutes to actually light up. If you came in the morning and turned them on, you didn't dare shut them off because the next gym class would come into darkness ... now it's instant light when you come back in."**

Terry Hubbard – Principal

Saint John's Lutheran Grade School – Plymouth, WI

### Project Scope

Replace legacy lighting system consisting of High Pressure Sodium fixtures with Orion's T8 Fluorescent Compact Modular High Bay fixtures.

### Project Economics

Displaced Energy:	18,046 kWh
Displaced Capacity:	4.0 kW
Annual Cost Reduction:	\$1,263
Light Level Improvement:	N/A

### Environmental Impact

Carbon Dioxide Emissions Displaced:	12 tons/year
Acres of Trees Planted (Equivalency):	3 Acres



Before



After



## School District IVVD Wisconsin Dells

### Wisconsin Dells School District Wisconsin Dells, WI

### Project Scope

Replace legacy lighting system consisting of High Intensity Discharge fixtures with Orion's T8 Fluorescent Compact Modular High Bay fixtures.

### Project Economics

Displaced Energy:	390,215 kWh
Displaced Capacity:	131.0 kW
Annual Cost Reduction:	\$23,413
Light Level Improvement:	N/A

### Environmental Impact

Carbon Dioxide Emissions Displaced:	252 tons/year
Acres of Trees Planted (Equivalency):	72 Acres



Before



After





# orion | Market Overview – Education

As of March 31, 2017, Orion has completed over 180 projects with over 170 customers in the Education market, as seen in the following table.

Customer	Site Count	Customer	Site Count
Goshen Local Schools	3	Futabakai Japanese School	1
Tecumseh School District	3	Granton School District	1
University of Wisconsin System	3	Hartford Union High School	1
Azusa Pacific University	2	Heritage Oak Private School	1
Duval County Public Schools	2	Highlands Elementary	1
Illinois School District 218	2	HOCKINSON SCHOOL DISTRICT	1
Wisconsin Dells School District	2	Hood College	1
A.M. Thomas Middle School	1	Horicon Marsh Education Center	1
Adams Middle School	1	Indian Trail Elementary	1
Andrews University	1	Indiana University	1
Apalachee High School	1	Irvine Valley College	1
APUS IT Center	1	John G Shedd Aquarium	1
Archbishop Moeller High School	1	Kannapolis City School	1
Baker College	1	Katy ISD Maintenance Center (951)	1
Bakersfield Assembly Hall	1	Kelvin Grove- School Dist. 91	1
Barber Hill Intermediate School District	1	Kewaskum Middle School	1
Beecher Junior High	1	Key Middle School	1
Belmont Public Schools	1	Kohler High School	1
Bexley City Schools Warehouse	1	LA Unified School District	1
Big Sky School	1	Lake Benton School	1
Bigfoot High School	1	Lakeland College	1
Brown Deer Middle School	1	Lakeshore Technical College	1
Camrose Colony	1	Limbach Triad High School	1
Canal Winchester Middle School	1	Lockport School District 33C	1
Carroll County Public Schools	1	Los Alamitos High School	1
Catholic University	1	Lutheran High School	1
Central Michigan University	1	Madison Ridgeland Academy	1
Chaparral Middle School	1	Madison School System	1
Chula Vista Elementary School	1	Manassas School Board	1
Church Hill Elementary	1	McBain School	1
CI High School CTE Auto Shop	1	Mechanicsburg School District	1
Cincinnati Zoo	1	Menasha High School	1
College of Southern Maryland	1	MI Technological University	1
Columbus Zoo	1	Michigan State University	1
Consolidated School District 93	1	Midwest Training & Ice Center	1
Country Dale Elementary School	1	Milwaukee Area Technical College	1
Covenant Academy	1	Miner School	1
Crete-Monee School District	1	Morley Stanwood High School	1
Davidson County Schools	1	Mount Vernon Nazarene University	1
Dawson Bryant Middle School	1	Mountain View Colony School	1
Delaware Technical Community College	1	Nature Vision, Inc.	1
Donelson Christian Academy	1	Necedah Area School District	1
Drummond High School	1	Neillsville School	1
EAST TROY HIGH SCHOOL GYM	1	New Hope Christian Academy	1
El Paso High School	1	New Jerusalem School	1
Elkhart Hale High School	1	New Lisbon Schools	1
Episcopal School of Jacksonville	1	New Palestine Schools	1
Franklin Middle School	1	North Carolina State University	1
Fresno Unified School District	1	NWTC	1
Friess Lake Elementary School	1	Oneida Tribal School	1
Fruitland Schools	1	Oregon School District	1



## Market Overview – Education

Customer	Site Count	Customer	Site Count
Osseo Fairchild School District	1	St. Lawrence Seminary	1
Owen-Withee School District	1	St. Mary's School	1
Pangburn School District	1	St. Thomas Moore High School	1
Paris Middle School	1	Sturgeon Bay School	1
Parklane Academy	1	Sugar Creek Elementary	1
Pensacola Christian College	1	Sun Valley High School	1
Peshtigo School District	1	Sunshine House	1
Pillow Academy	1	Sycamore Schools	1
Pius XI High School	1	Three Lakes Schools	1
Plymouth Joint School District	1	Today's Fresh Start School	1
Ponoma Unified School District	1	Tom Bean Intermediate School District	1
Port Wash./Saukville Schools	1	Two Rivers Public Schools	1
Pro Act Eagan	1	UMBC	1
Pueblo High Magnet School	1	Union Scioto High School	1
Pulaski Community School	1	University of Georgia	1
Quincy University	1	University of Maryland	1
Reedsville Elementary School	1	University of Massachusetts	1
Ridgefield School District	1	University of North Florida	1
Robinwood Elementary School	1	Upper Darby School District	1
Rock River Valley Self Help Enterprises	1	Waterford High School	1
Rockport Pendroy Elementary School	1	Waterford School District	1
Roncalli High School	1	Waukesha School District	1
Rowanty Technical Center	1	Webster Groves School District	1
Rush Creek	1	Weifield	1
School Dist. 30	1	Wesley International	1
School District of Spencer	1	WestAllis Central High School	1
Sheboygan Area School District	1	West Bend School District	1
Sheboygan Lutheran High	1	West Shore Community College	1
Shepard High School	1	Western Illinois University	1
South Georgia State College	1	Westminster Academy	1
South Western Community College	1	Weyauwega School	1
Spring Valley School District	1	Wheaton North High School	1
St. Anne's Belfield School	1	Winchester Train Elementary	1
St. John the Baptist Catholic	1	Wisconsin Rapids School Dist.	1
St. John's Lutheran School	1	Wonewoc Grade School	1

# orion | Featured Products – ISON™

## ISON™ LED HIGH BAY GENERATION III | HBIF3

- Future-proof modular design allows for ease of field maintenance and is upgradeable for performance enhancements.
- Superior thermal management leads to longer life and enhanced performance.
- Intelligent control options offered to gain additional energy savings.
- LED panel allows interchangeability between open or aisle light distribution.
- Lens options: Acrylic frosted lens that provides glare control to enhance low bay applications. Also available in a polycarbonate clear lens for dusty environments.
- Emergency fixture identifier option available.
- Voltage: 120-277, 347, and 480v
- Rated Life: 150,000 hours
- Ten Year Limited Warranty



## ISON™ LED HIGH BAY, GENERATION II | HBIF2

- Future-proof modular design allows for ease of field maintenance and is upgradeable for performance enhancements.
- Superior thermal management leads to longer life and enhanced performance.
- Intelligent control options offered to maximize additional energy savings.
- LED panel allows interchangeability between open or aisle light distribution.
- Lens options: Acrylic frosted lens that provides glare control to enhance low bay applications. Also available in a polycarbonate clear lens for dusty environments.
- Optional Orange painted end caps for high visibility of emergency circuits and battery back-up fixtures
- Voltage: 120-277, 347, and 480v
- Rated Life: 150,000 hours
- Ten Year Limited Warranty



## ISON™ LED HIGH BAY HIGH LUMEN

- Unique modular design allows for ease of field maintenance and is upgradeable for performance enhancements.
- Superior thermal management leads to longer life and enhanced performance.
- LED panel allows interchangeability between open or aisle light distribution.
- Various control options offered up to 40' ceiling heights for additional energy savings.
- Optional Orange painted end caps for high visibility of emergency circuits and battery back-up fixtures
- Voltage: 120-277, 347, and 480v
- Rated Life: 150,000 hours
- Ten Year Limited Warranty



## ISON™ RETROFIT MODULAR | LDRM

- The industry's first patented LED troffer retrofit contained within the door frame that retrofits existing 2'x2' and 2'x4' fluorescent troffers to LED and can be installed in under two minutes with minimal disruption to the workplace.
- Integrated, intelligent control options that measure ambient temperature and brightness, distributing an aesthetically pleasing showcase specific to the needs of individual environments.
- Patent pending modular light engine allows for color temperature and light output upgrades in the field.
- Future-proof, interchangeable design delivers the benefits of replaceable LED lamps or tubes without the performance and safety risks.
- Matte finish, acrylic contour lens diffuses glare in the work environment.



## orion | Featured Products – ISON™

- Aluminum frame with powder coat white finish.
- Multiple bracket options to fit specific application requirements.
- Available in 120-277v.
- Rated Life: 125,000 Hours.
- Ten Year Limited Warranty

### ISON™ RETROFIT MODULAR HEALTHCARE | LDRMH

- First to market LED troffer retrofit with Britex™, Orion's proprietary white coating that includes antimicrobial properties, which suppresses the growth of microorganisms and limit the transmission of harmful microbes in healthcare applications.
- The industry's first patented LED troffer retrofit contained within the door frame that retrofits existing 2'x2' and 2'x4' fluorescent troffers to LED and can be installed in under two minutes with minimal disruption to the workplace.
- Integrated, intelligent control options that measure ambient temperature and brightness, distributing an aesthetically pleasing showcase specific to the needs of individual environments.
- Patent pending modular light engine allows for color temperature and light output upgrades in the field.
- Future-proof, interchangeable design delivers the benefits of replaceable LED lamps or tubes without the performance and safety risks.
- Matte finish, acrylic contour lens diffuses glare in the work environment.
- Unique mounting brackets allow the LDR® to fit nearly all existing troffers.
- Available in 120-277v.
- Rated Life: 125,000 Hours.
- Ten Year Limited Warranty.



### ISON™ RETROFIT MODULAR GOURMET | LDRMG

- First to market LED troffer retrofit with Britex™, Orion's proprietary white coating that includes antimicrobial properties, which can suppress the growth of microorganisms and limit the transmission of harmful microbes in food display and preparation applications.
- The industry's first patented LED troffer retrofit contained within the door frame that retrofits existing 2'x2' and 2'x4' fluorescent troffers to LED and can be installed in under two minutes with minimal disruption to the workplace.
- Integrated, intelligent control options that measure ambient temperature and brightness, distributing an aesthetically pleasing showcase specific to the needs of individual environments.
- Patent pending modular light engine allows for color temperature and light output upgrades in the field.
- Future-proof, interchangeable design delivers the benefits of replaceable LED lamps or tubes without the performance and safety risks.
- Matte finish, acrylic contour lens diffuses glare in the work environment.
- Unique mounting brackets allow the LDR® to fit nearly all existing troffers.
- Available in 120-277v.
- Rated Life: 125,000 Hours.
- Ten Year Limited Warranty.





## APOLLO® LED HIGH BAY, GENERATION III | HBAC3

- Designed to exceed high and low bay illumination requirements for industrial, commercial, and retail applications.
- Unique modular design allows for easy field maintenance and performance enhancement upgrades.
- Superior thermal management leads to longer life and enhanced performance.
- Intelligent control options offered to achieve additional energy savings or to solve other business challenges like heating and cooling variances, space utilization inefficiencies and more.
- Designed to connect wirelessly to the IoT, and compatible with leading wireless protocols.
- Optional acrylic frosted lens available to reduce glare and enhance low bay applications.
- Aluminum powder coated body for superior thermal management.
- Available in 120-277v, 347v and 480v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® LED HIGH BAY, GENERATION II | HBAC2

- Designed to exceed high and low bay illumination requirements for industrial, commercial, and retail applications.
- Unique modular design allows for ease of field maintenance and is upgradeable for performance enhancements.
- Superior thermal management leads to longer life and enhanced performance. Intelligent control options offered to achieve additional energy savings. Optional glare control lens system to enhance low bay applications.
- Aluminum powdered coated body for thermal management.
- Tandem accessories for double the light output utilizing two fixtures.
- Available in 120-277v, 347v and 480v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® HIGH LUMEN HIGH BAY | ALHB1

- Designed to meet high bay and low bay illumination requirements for industrial, warehouse, manufacturing, commercial, wholesale, and retail applications.
- Aluminum powder coated frame for superior thermal management.
- Optional acrylic frosted lens available to reduce glare and enhance low bay applications.
- Multiple mounting methods for ease of installation in various environments.
- Unique modular design allows for easy field maintenance and performance enhancement upgrades.
- Available in 120-277v, 347v and 480v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® HIGH BAY PLUS | ALHB1

- Ideal for interior applications including retail, commercial, distribution and industrial facilities.
- Aluminum powder coated frame for superior thermal management.
- Optional acrylic frosted lens available to reduce glare and enhance low bay applications.
- Multiple mounting methods for easy installation in various environments.
- Unique modular design allows for easy field maintenance and performance enhancement upgrades.
- Available in 120-277v, 347v and 480v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® LED VAPORTIGHT NARROW BODY SERIES | VTON1

- Ideal for commercial kitchens, breweries, under awnings, laundries, car washes, utility tunnels, and livestock containment buildings where the application requires a waterproof and/or dust proof fixture
- Bi-level, dual circuit option allows for high and low lumen light levels for safety
- UL Listed for Wet Locations.
- IP67 Certified.
- High pressure wash-down up to 1500 PSI.
- TVSS and Wet Location sensor options available
- Voltage: 120-277v
- Rated Life: 125,000 hours
- Five Year Limited Warranty.



## APOLLO® LED VAPORTIGHT WIDE BODY SERIES | VTOD1

- Ideal for commercial kitchens, breweries, under awnings, car washes, utility tunnels, and livestock containment buildings where the application requires a waterproof and/or dust proof fixture
- Bi-level, dual circuit option allows for high and low lumen light levels for safety
- UL Listed for Wet Locations.
- IP67 Certified.
- High pressure washdown up to 1500 PSI.
- TVSS and Wet Location sensor options available
- Voltage: 120-277v
- Rated Life: 125,000 hours
- Five Year Limited Warranty.



## APOLLO® NARROW BODY VAPORTIGHT-NSF | VTON1-NSF

- Designed for demanding environments that require a watertight seal such as food-processing facilities, milking parlor, wash down applications and cooler/freezer environments.
- NSF/ANSI Standard 2, Non Food Zone and Splash Zone Certified.
- Available in 4' and 8'.
- Bi-level, dual circuit allows for high and low lumen light levels in one fixture.
- Acrylic, impact resistant, linear ribbed frosted lens.
- Durable, lightweight, white UL 5VA reinforced fiberglass body.
- Stainless steel 316 Marine Grade latches with stainless steel mounting brackets come standard with fixture.
- UL Listed for Wet Locations.
- IP67 Certified.
- High pressure washdown up to 1500 PSI.
- Available in 120-277v.
- Rated Life: 125,000 hours.
- Five Year Limited Warranty.



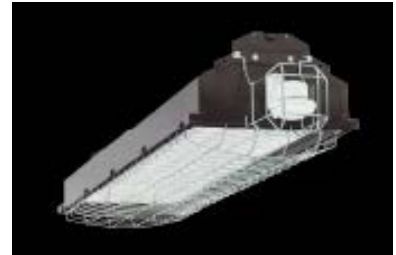
## APOLLO® WIDE BODY VAPORTIGHT-NSF | VTOD1-NSF

- Designed for demanding environments that require a watertight seal such as food-processing facilities, milking parlor, wash down applications and cooler/freezer environments.
- NSF/ANSI Standard 2, Non Food Zone and Splash Zone Certified.
- Offered in both 2' and 4' lengths
- Stainless steel 316 Marine Grade latches with stainless steel mounting brackets come standard with fixture
- Durable, lightweight, white, UL 5VA (f1) reinforced fiberglass body
- Acrylic, impact resistant, shallow ribbed frosted lens.
- Available in 120-277v, 347v and 480v.
- Rated Life: 125,000 hours.
- Five Year Limited Warranty.



## APOLLO® WET LISTED ENCLOSURE, GENERATION II | WTLED2

- Designed for demanding interior environments that require a wet-rated or enclosed and gasket fixture.
- UL Listed for Wet Locations
- IP65 Certified
- Sealed and gasketed powder coated aluminum body and lens frame.
- Bi-level, dual circuit option allows for high and low lumen light levels for safety
- All zinc plated hardware.
- Clear acrylic lens.
- Available in bronze or granite thermoset powder-coat finish.
- Fixture is impact resistant up to IK04 and is impact resistant with wireguard and sensor guard up to IK10.
- Single or bulk packaging options available to meet job installation needs.
- Available in 120-277V and 480V.
- Rated Life: 100,000 Hours
- Five Year Limited Warranty.



## APOLLO® WET LISTED ENCLOSURE

- Designed for demanding interior environments that require a wet-rated or enclosed and gasket fixture.
- UL Listed for Wet Locations
- IP65 Certified
- Sealed and gasketed aluminum body and lens frame.
- All zinc hardware.
- Bronze or Granite thermoset powder-coat options.
- Acrylic clear lens.
- Available in 120-277V and 480V.
- Rated Life: 100,000 Hours
- Five Year Limited Warranty.



## APOLLO® TROFFER RETROFIT LDR® F-SERIES CONTOUR | LDRF

- Patented LDR® retrofits existing 2'x2' and 2'x4' fluorescent troffers to LED in as little as two minutes.
- Industry's first LED troffer retrofit contained within the door frame.
- White powder coated, aluminum frame.
- LDR fits most existing fluorescent troffer fixtures with either prismatic lens or parabolic louvers.
- Required mounting brackets adapt the LDR to fit nearly all existing troffers.
- Matte finish polycarbonate contour lens diffuses glare in the work environment.
- Available in 120-277v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® TROFFER RETROFIT LDR® 1'X4' L-SERIES FLAT | LDRL

- Retrofits existing 1' x 4' fluorescent troffers to LED in as little as two minutes. Industry's first LED troffer retrofit contained within the door frame.
- LDR® fits most existing fluorescent troffer fixtures with either prismatic lens or parabolic louvers.
- Low environmental impact.
- Ultra-light, highly efficient troffer retrofit solution.
- Multiple bracket options to fit specific application requirements.
- Seismic cable kit options that is Title 24 compliant.
- Aluminum frame with proprietary white powder coat finish.
- LDR® fits most existing fluorescent troffer fixtures with either prismatic lens or parabolic louvers.
- Matte finish flat lens diffuses glare in the work environment.
- Integrated intelligent control options.
- Available in 120-277v and 347v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® JETSON RECESSED TROFFER | OLRL F-SERIES

- Designed specifically to maximize rebate and incentive potential for 2'x2' and 2'x4' ceiling grids.
- Aluminum frame with proprietary white powder coating.
- Lightweight lens and enclosed aluminum frame.
- Lift brackets come standard.
- Matte finish contour lens provides glare diffusion in the work environment.
- Available in 120-277v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® LINEAR MULTIPURPOSE | MPAL

- Ideal for low bay, assembly line, strip, surface mount, continuous run or task options in warehouse and retail environments where linear lighting is needed.
- Innovative design allows for a continuous run in four foot increments. Wire harness option provides "quick connect system" between fixtures for labor savings and ease of installation.
- Contour frosted lens or baffle steel louver option reduce glare and spread light evenly.
- White heavy gauge cold rolled steel body.
- Surface mounting comes standard. Suspended mounting option available.
- Battery backup option available.
- Single or bulk packaging available to meet the needs of job installation.
- Available in 120-277v.
- Rated Life: 125,000 Hours.
- Five Year Limited Warranty.



## APOLLO® LED SUSPENDED SLIMLINE SERIES | SPTS1

- Versatile slim design lends itself to many low bay, interior lighting applications
- Internal and External Driver options
- Suspended and surface mounting options
- Opaque matte lens aids in distribution of light and reduction of glare
- Voltage: 120-277v
- Rate life: 100,000 hours
- Five Year Limited Warranty.





# orion | Featured Products – HARRIS

## HARRIS HIGH BAY, GENERATION II | HBHC2

- Designed to meet high and low bay illumination requirements for industrial, commercial, and retail applications.
- Unique, modular design allows for easy field maintenance.
- Various control options offered to achieve additional energy savings or to solve other business challenges like heating and cooling variances, space utilization inefficiencies and more.
- Designed to connect wirelessly to the IoT, and compatible with leading wireless protocols.
- White aluminum painted body comes standard.
- Rigid and suspended mounting options available.
- Optional acrylic frosted lens available to reduce glare and enhance low bay applications.
- Available in 120-277v, 347v, and 480v.
- Rated Life: 100,000 hours.
- Five Year Limited Warranty.



## HARRIS LED HIGH BAY | HBHC1

- Designed to meet high and low bay illumination requirements for industrial, commercial, and retail applications.
- Modular power pack is field replaceable for ease of fixture maintenance.
- Various control options offered to achieve additional energy savings.
- Aluminum powder coated body for thermal management.
- Tandem accessories for double the light output.
- Available in 120-277v, 347v, and 480v.
- Rated Life: 100,000 hours.
- Five Year Limited Warranty.



## HARRIS TROFFER RETROFIT EDGE | LDRE1

- Retrofits existing 2'x2' and 2'x4' fluorescent troffers to LED. Industry's first patented LED troffer retrofit contained within the door frame with less than a two minute install and with minimal disruption to the workplace.
- Low environmental impact.
- Ultra-light, highly efficient troffer retrofit solution.
- Multiple bracket options to fit various application requirements.
- Seismic cable kit options that is Title 24 compliant.
- Aluminum frame with white powder coat finish.
- LDR® fits most existing fluorescent troffer fixtures with either prismatic lens or parabolic louvers.
- Matte finish, acrylic contour lens diffuses glare in the work environment.
- Integrated intelligent control options.
- Available in 120-277v.
- Rated Life: 100,000 Hours.
- Five Year Limited Warranty.



## HARRIS MULTIPURPOSE LINEAR | MPHL1

- Designed to replace low bay, assembly line, strip, surface mount, continuous run or task options in warehouse and retail environments where linear lighting is needed.
- Innovative design allows for a continuous run in four foot increments. Wire harness option provides "quick connect system" between fixtures for labor savings and ease of installation.
- White heavy gauge cold rolled steel body.
- Surface mounting comes standard. Suspended mounting option available.
- Battery back-up option.
- Single or bulk packaging available to suit job installation needs.
- Available in 120-277v.
- Rated Life: 100,000 Hours
- Five Year Limited Warranty.



## HARRIS STRIP RETROFIT | SFHR1

- Designed to retrofit existing linear fluorescent strip fixtures to LED in manufacturing, distribution, warehouse, retail application.
- Available in 3', 4' and 8' fixture lengths.
- Battery back-up option available.
- Fixture comes with tethers to hold cover, to allow for one-person installation.
- Optional acrylic matte finish, contoured lens provides glare diffusion in work environment
- Single pack and job pack options available.
- LED light engine is made of lightweight aluminum, pre-coated white finish for better thermal dissipation.
- Retrofit light engine is designed to fit over existing linear fluorescent strip fixture channel with various locations on cover to secure to existing channel.
- Available in 120-277v.
- Rated Life: 100,000 Hours
- Five Year Limited Warranty.



## HARRIS STRIP FIXTURE | SFHC1

- Designed for use in areas such as manufacturing, distribution, warehouse, and retail settings.
- Available in 3', 4' and 8' fixture lengths that can connect in tandem to create electrical raceway.
- End mounted sensor available.
- Fixture comes with tethers to hold cover, to allow for one-person installation.
- Single pack and job pack options available
- Optional matte finish, acrylic contour lens provides glare diffusion in task application.
- Available in 120-277v.
- Rated Life: 100,000 Hours
- Five Year Limited Warranty.





ORION WILL CHANGE THE WAY YOU  
THINK ABOUT A LIGHTING COMPANY.

# WHY ORION

From the very first handshake to the final fixture installed, our energy is the difference we bring to every retrofit. Ingenuity guides us to new solutions. Dedication helps you at every step. And our products illuminate your world in ways you might not have imagined.

## ALLY IN ACCOUNTABILITY

Our relationships go beyond shipping you the latest fixture. Your goals become our goals, which means we share responsibility to help you keep your promises and make your project successful.

## PRACTICAL INGENUITY

When you've been on the job site or up on the lift, you build in-the-trenches know-how. That expertise inspires more creative products that maximize real-world performance for your lighting investment.

## UNCOMMON DEDICATION

Our customers tell us we have more capable teams that deliver results, not just on paper, but in the day-to-day work of the people we serve. Some say it's our Midwestern roots; we think it's our energy.

## LIGHT YEARS AHEAD®

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