

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

CASE STUDY

ARENAS AND GYMNASIUMS

Orion's line of LED high bay fixtures are durable enough to meet facility needs, while providing an even and consistent quality of light that improves lighting levels - without increasing glare in arenas and gymnasiums.

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.

orion | Market Overview – Arenas and Gymnasiums

Durable, efficient lighting for demanding environments

Arenas and Gymnasiums

Your lighting system must be able to meet the requirements of your facility. Light fixtures in a gymnasium or arena have to be able to stand up to punishment of their unique operating environment. Your fixtures need to be durable enough to withstand being hit with basketballs and other sporting equipment in their daily operation. Our products are durable enough to meet the needs of operating in your facility, while providing an even and consistent quality of light that improves your lighting levels without increasing the glare in your facility.

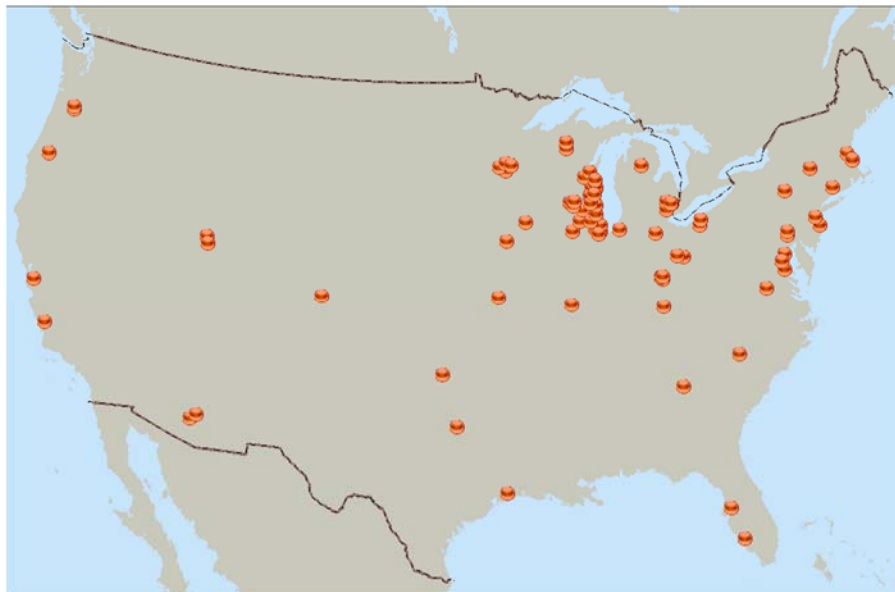


PROJECT BENEFITS

- Durable fixtures, with multiple mounting and wire guard options, designed to withstand the unique challenges of arena and gymnasium environments.
- Industry leading fixture performance that ensures user comfort by increasing light levels and reducing glare.
- Reduce operating costs by reducing your energy consumption and usage.
- Reduce maintenance costs with some of the longest lasting fixtures on the market.
- Spend less time repairing fixtures and replacing burnt out lamps.
- Reduce OSHA/waste concerns by eliminating need for fluorescent lamp disposal.
- Reduce installation fees and facility disruption with fixtures that are lightweight and easy to install.
- Adjust to changing facility needs with modular fixtures that can be easily moved to meet changing lighting requirements.
- Optimize performance by integrating your fixtures with most third party control technologies.



As of March 31, 2016, Orion has completed over 90 projects with 74 customers in the Arenas and Gymnasiums market. The following map shows displays projects in contiguous United States.



ENERGY MANAGER TODAY

[Home](#) [News](#) [Columns](#) [Videos](#) [Webinars](#) [White Papers](#)[Energy Manager Jobs](#)[About](#) [Advertise](#) [Privacy](#) [Awards](#) [Subscribe](#)

Search Energy Manager Today

Search

[POLICY](#) [PROCUREMENT](#) [MONITORING](#) [CONSERVATION](#) [ON-SITE ENERGY](#) [GRID](#) [BUILDING SYSTEMS](#)[Home](#) / [Building Systems](#) / Orion Introduces High-Performing High Bays

Orion Introduces High-Performing High Bays

October 12, 2015 By [Karen Henry](#)

Orion Energy Systems

has introduced a new suite of high bay LED industrial light fixtures. The ISON LED High Bay delivers 179 lumens per watt and a 10-year total cost of ownership. The APOLLO LED High Bay offers up to 148 lumens per watt, and the HARRIS LED High Bay also delivers up to 148 lumens per watt and the lowest up-front cost in the suite.

The fixtures are upgradeable and interchangeable, allowing maintenance crews to

meet changing light distribution requirements, such as moving from an open area to aisle lighting, or from high bay to low bay or even retail applications by adding a lens. Internal teams can use quick attachments to switch out the light engine panels by turning off the power to the luminaire.

Other features include:

- Thermal management.
- High-performing LED chips and drivers paired with cooler operating luminaires.
- Fixture designs that allow for maximum light output.
- Lightweight body.
- Greater potential for wattage reduction rebates.

According to the company, a typical facility installing the ISON LED High Bay would save more than \$100,000 a year and more than \$1.15 million in the next decade over the majority of legacy lighting systems.

Related:



Leave a reply

Comment

NEWSLETTER SIGNUP

Join 100,000+ subscribers who gain a competitive advantage with our news and analysis.

Select the newsletters that interest you:

- ☒ Energy Manager Today Newsletter (Daily)
☐ Retail Energy Buyer Newsletter (Weekly)
☐ Environmental Leader Newsletter (Daily)
☐ Recycling & Waste Reduction (Weekly)

Your work email

Subscribe

NEW Podcast Series
How to Buy Energy Like a Pro

Listen Now

Headlines [3/25/2016](#) [3/24/2016](#) [3/23/2016](#)[Navigator: Commercial and Industrial Energy Storage Market to Hit \\$10.8B in 2025](#)[Orlando Considers Building Water, Energy Use Ratings](#)[Big Job Gains in Energy Efficiency Sectors](#)[Reliability Is Driver for Atlantic City Electric Rate Adjustment](#)[District Court Dismisses \\$50M Class Action vs. Starion Energy](#)[IECA Urges Congress to Extend CHP Business Investment Tax Credit](#)

Videos



"Once I saw the numbers between the lighting savings and the expected reduction in air-conditioning costs, I knew this project was a win-win proposition."

Pete Simon – Owner

Prairie Athletic Club, Sun Prairie, WI

Project Scope

Replace legacy lighting system consisting of High Intensity Discharge and T12 Fluorescent fixtures with Orion's T8 Fluorescent Compact Modular High Bay and Retrofit Kit fixtures.

Project Economics

| | |
|--------------------------|-------------|
| Displaced Energy: | 210,785 kWh |
| Displaced Capacity: | 41.1 kW |
| Annual Cost Reduction: | \$9,632 |
| Light Level Improvement: | N/A |

Environmental Impact

| | |
|---------------------------------------|---------------|
| Carbon Dioxide Emissions Displaced: | 136 tons/year |
| Acres of Trees Planted (Equivalency): | 39 Acres |



Before



After



Timber Ridge Lodge and Waterpark Lake Geneva, WI

Marcus Corporation

Project Scope

Replace legacy lighting system consisting of High Pressure Sodium fixtures with Orion's T5 Exterior Fluorescent fixtures.

Project Economics

| | |
|--------------------------|----------------------------------|
| Displaced Energy: | 294,697 kWh |
| Displaced Capacity: | 48.67 kW |
| Annual Cost Reduction: | \$22,690 |
| Light Level Improvement: | 260.3% (3.88 to 13.98 avg fc) |

Environmental Impact

| | |
|---------------------------------------|---------------|
| Carbon Dioxide Emissions Displaced: | 191 tons/year |
| Acres of Trees Planted (Equivalency): | 54 Acres |



Before – 3.88 average foot-candles



After – 13.98 average foot-candles



"Our lighting project with Energy Solutions of Texas was a great experience. Their staff is very professional, up-front, and friendly. The whole project from start to finish was done with extreme professionalism and constant communication during the process. I would highly recommend them to anyone looking for a quality company!"

Rick Cadden – Associate Pastor of Administration
Columbus Avenue Baptist Church – Waco, 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: | 477,366 kWh |
| Displaced Capacity: | 119.3 kW |
| Annual Cost Reduction: | \$56,649 |
| Light Level Improvement: | 26.3% |
| | (38 to 48 avg. fc) |

Environmental Impact

| | |
|---------------------------------------|---------------|
| Carbon Dioxide Emissions Displaced: | 290 tons/year |
| Acres of Trees Planted (Equivalency): | 88 Acres |



Before – 38 Average Foot-candles



After – 48 Average Foot-candles



"I am very satisfied with Orion from sales and delivery to installation. They were very professional and were able to work around our busy facility schedule to complete the work on time."

Michael Richardson – President
Soccer City Indoor Arena, Palatine, IL

Project Scope

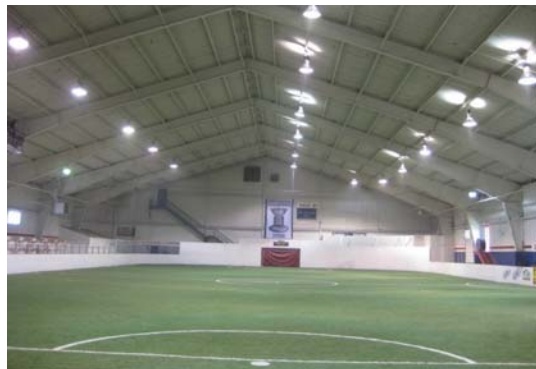
Replace legacy lighting system consisting of High Intensity Discharge fixtures with Orion's T8 Fluorescent Compact Modular High Bay fixtures.

Project Economics

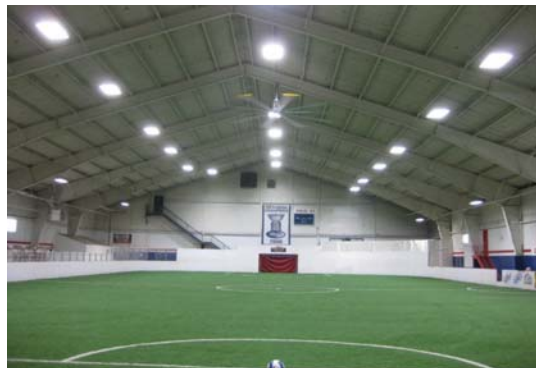
| | |
|--------------------------|-------------|
| Displaced Energy: | 158,078 kWh |
| Displaced Capacity: | N/A |
| Annual Cost Reduction: | \$14,227 |
| Light Level Improvement: | N/A |

Environmental Impact

| | |
|---------------------------------------|---------------|
| Carbon Dioxide Emissions Displaced: | 102 tons/year |
| Acres of Trees Planted (Equivalency): | 29 Acres |



Before



After



Blue Springs Fitness

Blue Springs, MO

Replaced (140) 3-Lamp 8 ft. T12 Fluorescent Strip Lights - Most were burned out or missing - with (61) 4-Lamp 4 ft T8 Fluorescent Low-Bay fixtures. We were able to cut the light fixture count by over 50% and improve the light levels.

Project Metrics

| | |
|---------------------------------|----------------|
| Annual Cost Savings | \$3,700 |
| Annual Kilowatt Hour Reduction | 32,883 |
| Load Reduction | 27 kW |
| Annual Carbon Dioxide Reduction | 20 Tons |

Average Foot Candles

| | |
|--------|---------------------|
| Before | 13.6 to 19.4 |
| After | 27.6 to 40.3 |

Before



After



Zumba Room



Main Gym



Weight Room



"Our members love the bright, airy look."

Mike Gustafson – Executive Director
Sheboygan Falls YMCA, Sheboygan Falls, 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: | 24,293 kWh |
| Displaced Capacity: | 6.0 kW |
| Annual Cost Reduction: | \$1,579 |
| Light Level Improvement: | N/A |

Environmental Impact

| | |
|---------------------------------------|--------------|
| Carbon Dioxide Emissions Displaced: | 16 tons/year |
| Acres of Trees Planted (Equivalency): | 4 Acres |



Before



After

| Customer | Quantity |
|-------------------------------------|----------|
| Appleton Ice Center | 1 |
| Artic Ice Arena | 1 |
| Bent Creek Country Club | 1 |
| Big Gymnastics | 1 |
| Blue Springs Fitness | 1 |
| Brookfield Indoor | 1 |
| Camp Friendship | 1 |
| Carolina Courts | 1 |
| Cascade Athletic Club | 2 |
| Center Ice of Dupage | 1 |
| Champion Lexington, LLC | 1 |
| Charles County Fairgrounds | 1 |
| Cincinnati Sports Club | 1 |
| Club Sports | 1 |
| Correctional Corporation of America | 2 |
| CRAF Center | 1 |
| Crystal Ice House | 1 |
| Delano Sports Arena | 1 |
| Dunes Volleyball Club | 1 |
| Eale River Recreation Assoc. | 1 |
| Fitness Factory | 1 |
| Flodin Boys and Girls Club | 1 |
| Franklin Park Ice Arena | 1 |
| Frozen Ropes | 1 |
| Glendale Racquet Club | 1 |
| Golden Triangle Sports Academy, OOC | 1 |
| Gymnastics Central | 1 |
| Hard Body Fitness | 1 |
| Hartland Ice Arena | 1 |
| High Velocity Sports | 1 |
| Icon Health & Fitness | 1 |
| Iowas Event Center | 1 |
| JB Entertainment Center | 1 |
| Kettle Moraine Ice Center | 1 |
| KI Convention Center | 1 |
| Kids First Sports Center | 1 |
| Lakeland Arena | 1 |
| Lakeview RecPlex | 1 |

| Customer | Quantity |
|---------------------------------|----------|
| Lancaster Barnstormers | 1 |
| Maines Maple Lanes | 1 |
| Maple Lanes Bowling Inc. | 1 |
| McFarland Community Ice Rink | 1 |
| Mi City- Peak Human Performance | 1 |
| Mid State Fair | 1 |
| Minnesota Vikings | 1 |
| Northfield Park | 1 |
| NY Times Center | 1 |
| Oak Lawn Ice Arena | 1 |
| Olympic Gym | 1 |
| Phanzone | 1 |
| Plano Sports Authority | 1 |
| Prairie Athletic Club | 1 |
| Precision Baseball LLC | 1 |
| Princeton Club | 1 |
| Rhinelanders Ice Association | 1 |
| Road America | 1 |
| Rock Jungle Fitness | 1 |
| Sheboygan Blue Line Ice Center | 1 |
| Sims Electric, Inc. | 1 |
| Skatium | 1 |
| Sky High Volleyball | 1 |
| Soccer City Palatine | 1 |
| Sports Barn | 1 |
| Sports Plus | 1 |
| Sports Zone | 1 |
| Suwanee Sports Academy | 1 |
| Family Sportsplex, The | 1 |
| Tour Inline Skating | 1 |
| Troy Sports Center | 2 |
| Vadnais Heights Sports Complex | 1 |
| Velocity Sports Performance | 1 |
| Volley Ball House | 1 |
| Washington DC Convention Center | 1 |
| WDIR EXPO Center Construction | 1 |
| Whitewater Aquatic Center | 1 |
| Winners Motor Sports | 1 |
| YMCA | 15 |

ISON™ LED HIGH BAY | HBIF2

- Industry leading efficiency with best in class performance
- Patent-pending 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
- Ideal for industrial, commercial and retail application
- Flexible platform to adjust to almost any application
- Durable, sleek, aluminum body with open area and aisle illumination options
- Various control options offered to gain additional energy savings
- Voltage: 120-277, 347, and 480v
- Rated Life: 150,000 hours



ISON™ LED HIGH BAY HIGH LUMEN | HBIF2

- Best in class "Lumen per Watt Performance" - up to 177 lpw
- Designed to replace traditional fluorescent or HID of 400, 750 and/or 1000 watt in heights above 40'
- Groundbreaking thermal management design reduces fixture operating temperature to enhance performance
- Wireless networking and remote control sensors
- Voltage: 120-277v, 347v and 480v
- Rated Life: 150,000 hours



APOLLO® LED HIGH BAY | HBAC2

- Future-proof, modular design allows for ease of field maintenance and is upgradeable for performance enhancements
- Feature rich, value oriented high performance high & low bay solution ideal for industrial, commercial, and retail applications
- Hundreds of options and accessories available, including emergency battery back up, integrated and wireless controls, aisle illumination package and more
- Easy-to-install, lightweight aluminum body design, reduces ceiling grid load, installs faster with minimal impact on operations
- Extensive list of features and fixture options
- Voltage: 120-277v, 347v, 480v
- Rated Life: 125,000 hours



HARRIS LED HIGH BAY | HBHC1

- Modular power pack is field replaceable for ease of fixture maintenance
- Well suited to meet high and low bay illumination requirements for industrial, commercial, and retail applications
- Plug and play end mounted control options available
- Optional aisle illumination performance package
- Voltage: 120-277v, 347v, 480v
- Rated Life: 100,000 hours



ISON™ LED LDR® TROFFER RETROFIT MODULAR | LDRM1

- Industries first Patented LED LDR® Troffer Retrofit contained within the doorframe
- Patent pending, future-proof, interchangeable light engine design delivers the benefit of replaceable LED lamps or tubes without the performance or safety risks
- Designed to retrofit existing 2'x2' and 2'x4' T8/T12 fluorescent troffers in as little as two minutes
- Ships completely assembled, which minimizes labor install and interruption in the workplace
- Several control options to include third party control solutions
- Voltage: 127-277v
- Rated Life: 125,000 hours



APOLLO® LED LDR® TROFFER RETROFIT | LDR F-SERIES 1'x4', 2'x2', 2'x4'

- Industries first Patented LED LDR® Troffer Retrofit contained within the doorframe
- Designed to retrofit almost all existing T8/T12 troffer
- One-piece, powder-coated white, light-weight enclosed aluminum body
- Designed to retrofit existing 1'x4', 2'x2' and 2'x4' T8/T12 fluorescent troffers in as little as two minutes
- Matte finish contour or flat panel lens
- Full range dimming driver
- Voltage: 120-277
- Rated Life: 125,000 hours



HARRIS LED LDR® TROFFER RETROFIT EDGE | LDRE1

- Industries first Patented LED LDR® Troffer Retrofit contained within the doorframe
- Designed to retrofit existing 2'x2' and 2'x4' T8/T12 fluorescent troffers with either prismatic lens or parabolic louvers
- Installs in as little as two minutes, which minimize workplace disruption
- Ships completely assembled, which minimizes cleanup and labor install
- Several control options to include third party control solutions
- Voltage: 127-277v
- Rated Life: 100,000 hours



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



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 Wet Location, IP66, IP67, High Pressure Washdown PSI1500, NEMA 4X Housing
- TVSS and Wet Location sensor options available
- Voltage: 120-277v
- Rated Life: 125,000 hours



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 Wet Location, IP66, IP67, High Pressure Washdown PSI1500, NEMA 4X Housing
- TVSS and Wet Location sensor options available
- Voltage: 120-277v
- Rated Life: 125,000 hours



HARRIS LED VAPORTIGHT | xVT

- Industrial application, food service settings
- Outperforms in freezer and refrigerator settings
- Lightweight fiberglass body, Ribbed frosted acrylic lens
- Four and eight foot options
- Quick clean with high or low pressure wash
- Voltage: 120-277
- Rated Life: 50,000 hours
- IP65, IP67





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®

2210 Woodland Drive
Manitowoc, WI 54220

800.660.9340 | 920.482.0520
orionlighting.com

©2016 Orion Energy Systems, Inc. All rights reserved. The Orion logo, ISON™, APOLLO®, HARRIS and Intelite® product names are registered trademarks of Orion Energy Systems. All other trademarks are the property of their respective owners.