AGRICULTURAL LIGHTING
WITH AN ENERGY SAVINGS GUARANTEE

1.800.660.9340
orionlighting.com
Better light for less

Lighting consumes almost a quarter of the energy, you, as a producer use. Orion’s agricultural LED lighting products provide the most light output for the least amount of energy consumed. With LED, you have an immediate “on” response and no mercury.

Little to no maintenance

Orion’s LED lighting lasts at least five times longer than HID and at least three times longer than fluorescent. This means your Orion LED products are virtually maintenance free so you can focus on more productive tasks. Plus, easy installation, fixture modularity, and upgrades with technology improvements ensure continuous performance and product longevity.

Free up your cash flow

Many states and utilities offer energy efficiency rebate and incentive programs to lower the up-front costs of lighting projects. The federal Rural Energy for America program also provides grants for energy audits, and up to 25% of the total project cost for energy efficiency improvements.

Energy savings guaranteed

Orion takes the risk out of your retrofit project with a written guarantee. The energy savings from our lighting solution will take the lighting cost of your building, while creating a safe work environment and potentially increase productivity in livestock.
The 5 Rules of Long-Day Lighting (LDL)

1. A total of 16 to 18 hours of light per day
   Choose a length that suits your barn work and milking schedule. Add artificial light before dawn and after dusk to make the day longer.

2. Darkness 6 to 8 hours per day
   Make sure all cows get a single, uninterrupted period of darkness, 6 to 8 hours.

3. Use a timer to turn barn lights on and off
   Consistent day-to-day timing is essential to successful LDL.

4. Fifteen footcandle average
   Install fixtures for consistent, sustainable light at an average of 15 footcandles everywhere in the barn (including holding area for freestall operations).

5. Annual break from LDL schedule
   All cows get a rest away from the timed LDL lights once a year to reset their biological clock and continue responding to LDL by producing more milk on a long-term basis.
Product Suite
Orion is leading the transformation of agricultural businesses 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 control options. Many of Orion’s 95+ granted patents and patent pending 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.

APOLLO® LED Enclosed Wet Listed High Bay, Gen 2 | WTLED2
- Nite Liter (Bi-level) option for low light level in Long Day Lighting program
- Sealed and gasketed aluminum body with lens, bronze or granite finish
- IP65 rated, impact resistant up to IK04
- Wireguard and sensor guard option with IK10 rating
- 10kA surge protection option
- Available voltage: 120v-277v, 347v, and 480v
- Lumen package range from 12,000 - 32,000 lumens; up to 143 LPW
- Five year limited warranty

APOLLO® LED VaporTight Narrow Body Bi-Level | VTON1
- Bi-level, dual circuit dimming option in universal voltage, allows for high and low lumen light levels in one fixture for Long Day Lighting
- UL Wet Location; IP66, IP67, with sensor IP65; High Pressure Washdown up to 1500PSI, NEMA 4X Housing
- 10 kA surge protection, battery backup and NSF/ANSI Standard 2 Certified options
- Stainless steel 316 Marine Grade latches with stainless steel mounting clips come standard with fixture
- Available in both 4' and 8' lengths
- Available voltage: 120v-277v, 347v, and 480v
- Lumen package range from 3,000 - 25,000 lumens; up to 152 LPW
- Five year limited warranty

APOLLO® LED VaporTight Wide Body Bi-Level | VTOD1
- Bi-level, dual circuit allows for high and low lumen light levels in one fixture for LDL
- UL Wet Location; IP66, IP67, with sensor IP65; High Pressure Washdown up to 1500PSI, NEMA 4X Housing
- 10 kA surge protection, battery backup and NSF/ANSI Standard 2 Certified options
- Stainless steel 316 Marine Grade latches with stainless steel mounting clips come standard with fixture
- Available in 2' and 4' lengths with multiple mounting methods
- Available voltage: 120v-277v, 347v, and 480v
- Lumen package range from 13,000 - 36,000 lumens; up to 155 LPW
- Five year limited warranty

APOLLO® LED High Bay, Gen 3 | HBAC3
- Engineered to operate in extreme temperatures down to -40°F
- Modular design allows for quick maintenance and technology upgrades
- 54% less energy consumed than fluorescent lighting
- Lightweight, aluminum powder coat frame with light distribution options for aisles or open areas
- Emergency fixture identifier option - OSHA orange endcaps for easy identification
- Available voltage: 120v-277v, 347v, and 480v
- Lumen package range from 13,000 - 27,000 lumens; up to 173 LPW
- Five year limited warranty

HARRIS LED Patriot Slimline™ High Bay | HBHS1
- Low profile, space-saving design is well suited for high and low bay settings
- Modular design allows for quick maintenance and technology upgrades
- Up to 77% energy savings over traditional HID lighting
- Lightweight, aluminum powder coat frame with light distribution options for aisles or open areas
- Emergency fixture identifier option - OSHA orange endcaps for easy identification
- Available voltage: 120v-277v, 347v, and 480v
- Lumen package range from 12,000 - 39,000 lumens, up to 162 LPW
- Five year limited warranty
APOLLO® LED Suspended Slimline | SPTS1
- Opaque matte lens aids in distribution of light and reduction of glare
- Aluminum extruded body for durability and ease of install
- Option of an internal or an external driver
- Dimming Driver Available
- UL Damp Listed
- Available voltage: 120v-277v
- Lumen package range from 2,000 - 9,000 lumens
- Rated Life – 100,000 hours L70
- Five year limited warranty

APOLLO® Solar Pipe | LP
- Daylighting device designed for commercial and industrial applications
- Closed cell insulation between roof flashing and reflector tube
- Solid clamping band provides flame spread protection
- Seamless, all aluminum contract with built-in roof flashing
- AAMA/WDMA/CSSA 101/1.S.2/A440-08 certified
- Meets or exceeds performance levels specified in 2006 IBC Standards
- Exceeds OSHA 29 CFR 1910.23 (Guarding Floor openings and holes)
- 22.25” Light pipe Diameter
- One year limited warranty

HARRIS LED Dusk to Dawn Site Light | DDLED2
- Gray, round site light ideal for driveways and parking areas
- Available in 5000K
- Photocell comes standard
- 5,000 lumens, 114 LPW
- Available voltage: 120v-277v
- Rated Life: 50,000 hours L70
- Five year limited warranty

HARRIS LED Area Site Light | ALLED3
- Square area light ideal for driveways and parking areas
- Available in 5000K and 4000K
- Field adjustable Type III, IV and VS light distribution optics
- Photo control and TVSS options available
- 10,000 - 38,000 lumens, up to 142 LPW
- Available voltage: 120v-277v, 347v, and 480v
- Rated Life: 50,000 hours L70
- Five year limited warranty

HARRIS LED Full Cutoff Wallpack | WFLED2
- Ideal for applications including exterior walls, entrance ways and pathways
- Designed for replacement up to 400W HID fixtures
- Die cast UV stabilized powder coat finish aluminum housing with borosilicate glass lens
- Battery Back Up option for building exit areas
- Dark Sky Friendly
- Available voltage: 120v-277v
- Rated Life: 50,000 hours L70
- Five year limited warranty
**Project Description**

Zinke Farms used 53 - 400w HID fixtures for Long-Day Lighting (LDL) and retrofitted to 36 - BarnLiter and 12 - NiteLiter 200w WTLED fixtures.

**Project Metrics**

- Annual Cost Savings ................................................................. $5,644
- Annual Kilowatt Hour Reduction ..................................... 56,436
- Load Reduction ................................................................. 13.62 kW
- Annual Carbon Dioxide Reduction ................................. 35 Tons

Farm reduced fixture count from 53 to 48 without any loss of light levels!
Our relationships go beyond shipping you the latest fixture. Orion’s experienced photometric design team will work closely with you to be sure you achieve the goals established for your specific project.

### Guaranteed Energy Savings
- Achieve the documented energy savings from our products or we refund the difference

### Better Light Quality For Less
- Directed light through optical efficiency, no waste
- Fewer fixtures, more foot candles
- Volumetric lighting without hotspots or shadows

### Lower Cost Install
- Plug and play design
- Lower overall labor costs
- Install more fixtures in less time

### Less Downtime, More Uptime
- Fixtures labeled to your facility’s layout
- Fully assembled and kitted fixtures
- Fast and easy install
- Packaged to fit through doors

### More Profitability
- Energy savings that takes the cost out of your building
- HVAC load reduction
- Increase safety, productivity and morale

### Real World Performance
- More lumens per watt with less energy consumed
- Every fixture tested before shipment
- Long LED lifetime via superior thermal management
- Patented, high performance design
- Multiple certifications and qualifications including UL, DLC Qualified, NSF and more

### On-Time Projects
- 99% on-time shipments
- Quick ship, 5-10 days
- Overnight shipment of additional materials

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

### Clean Jobsite Management
- Single and bulk packaging options
- Packaging doubles for recycling
- No need for a dumpster
- Debris-free install
“To save about 50% on our lighting costs without compromise created a great value. And the Orion lighting makes it easy to see a cow’s number.”

Habeck Homestead Farms LLC  
Keith Habeck, Maribel, Wisconsin