



# Exterior LED Lighting Product Guide

orion™



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# Our Mission

Through environmentally responsible practices and innovation, Orion provides energy-efficient LED lighting systems and turnkey projects to help companies nationwide save on operating expenses while improving their lighting.

# Core Strengths

We set ourselves apart with:

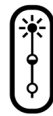
-  **Superior lighting products**
-  **Project support from beginning to end & beyond**
-  **Quick quote turnaround time**
-  **Socially & environmentally responsible practices**
-  **Flexibility across projects**

# Why Orion Exterior LED Lighting?



## Field Adjustable Color Temperature (CCT)

Easily adjust CCT to meet the aesthetic needs for any area. From warm light to cool daylight, Orion CCT-integrated exterior LED fixtures allow you to keep few SKUs in inventory while providing the in-field flexibility to meet customer requirements.



## Field Adjustable Wattage & Light Output

Adjust light level brightness in the field to ensure required footcandle requirements are met while maximizing energy usage.

## BENEFITS OF EXTERIOR LED LIGHTING

### Increase Safety and Security



A well-lit space with proper vertical and horizontal illuminance provides all visitors with optimal night-time visibility, discouraging perpetrators from targeting your space.

### Ensure Uniformity



Illuminate your entire space with consistent lighting. Eliminate dark spots around corners or hot spots where too much light floods a space.

### Highlight Points of Interest



Focus lighting on areas where you want to draw attention to such as entry ways, products, and exterior branding.

### Mitigate Liability



Ensuring required light levels are met may mitigate liability if an unforeseen event occurs on your property.

### Eliminate Light Trespassing



LED lighting is a directional light source compared to old technologies, like HID, that provide light outside the targeted space.

### The Right Amount of Light



Fixture distribution types, aiming, and optics will increase lighting effectiveness within your space to deliver the desired illumination.

## Need Exterior Pole Placement and Selection Assistance?

Upgrading exterior lighting isn't just about the lights. We guide our customers in finding the right pole solutions for their exterior lighting needs through a customized approach uniquely designed with their lighting requirements in mind.

# LED AREA LIGHTS

## ISON LED AREA LIGHT HIGH PERFORMANCE, GEN 1

### IAHP1 SPECIFICATIONS

#### Fixture Sizes

- 3 Fixture Sizes Available

#### Lumen Range / LPW

- 13,000 to 63,000 Lumen, up to 172 LPW

#### Factory Installed Features and Options

- 3 Light Distribution Types
- 10kV Surge Protection Standard
- 120-277v or 277-480v
- 3 Fixture Colors Available
- 80 CRI Standard; 3000K, 4000K, or 5000K
- Factory-Installed, Optional 7-pin Photocell Receptacle for Field Installation of Photocell

#### Field Installed Options

- Light Shield Options
- Control and Sensor Options
- Photocell 120-277v, 347v, and 480v

#### Control Types Available

- IP66 Rated Bluetooth Remote Programmable
- IP65 IoT or Connected Lighting Sensor

#### Certifications / Listings\*

- Dark Sky Approved
- DLC Listed Premium
- IK10 Rated
- IP66
- IP67
- cULus Certified
- UL Wet Rated
- Meets Title 24 Compliance

#### Mounting Options

- Yoke
- Trunnion
- Adjustable Arm
- Universal Pole Mount
- Slip-fitter
- Adjustable Wall Mount
- Slide & Lock Mount

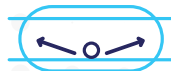
Precision engineered lens made of optical-grade polycarbonate for maximum light intensity and high efficacy

Toolless access to electrical components for field maintenance and installation

Anti-corrosion Stainless Steel Hardware



Type III, IV, and Type V light distribution



#### TYPE III

Perimeter parking areas, parking lots, and roadways



#### TYPE IV

Perimeter parking areas, and parking lots



#### TYPE V

Intersections, parking lots, and center roadways

\*Varies by fixture configuration

# LED AREA LIGHTS

## HARRIS AREA LIGHT LUMEN SELECT, GEN 1

### ALL P1 SPECIFICATIONS

#### Fixture Sizes

- 2 Fixture Sizes Available



#### Lumen Range / LPW

- 12,000 to 42,000 Lumen, up to 158 LPW.
- Each lumen package allows for field adjustment of lumen output



#### Factory Installed Features and Options

- 4 Light Distribution Types
- 6kA/10kV Surge Protection Standard
- 120-277v or 277-480v
- Bronze Color Standard
- 80 CRI Standard; 3000K, 4000K or 5000K
- Field Adjustable CCT
- Factory-Installed, 3-pin Photocell Receptacle with Shorting Cap for Field Installation of Optional Photocell Standard

#### Field Installed Options

- Light Shield Options Available
- Control and Sensor Options

#### Control Types Available



- Photocell 120-277v, 347v, and 480v
- Microwave Sensor with Remote Control
- PIR Sensor with Remote Control

#### Certifications / Listings\*

- Dark Sky Compliant
- cULus Certified
- DLC Listed Premium
- UL Wet Rated
- IK08 Rated
- Meets Title 24
- IP65
- Compliancy

#### Mounting Options

- Trunnion
- Slip-fitter
- Fixed Universal Pole Mount
- Adjustable Arm Universal Pole Mount
- Direct Pole Mount
- Adjustable Wall Mount

Die-cast aluminum housing with powder coat finish for harsh outdoor environments

Two fixture knockouts for easy access to adjust wattage, CCT, and install sensors

Pre-wired sensor receptacle allows for easy screw-in installation. No in-field sensor wiring required.

Anti-corrosion stainless steel hardware

Type II, III, IV, and V light distribution



#### TYPE II

Wide walkways, ramps, and entrance roadways



#### TYPE III

Perimeter parking areas, parking lots, and roadways



#### TYPE IV

Perimeter parking areas, and parking lots



#### TYPE V

Intersections, parking lots, and center roadways

\*Varies by fixture configuration



# LED AREA LIGHT

HARRIS LED AREA & SITE LIGHT, GEN 3

## ALL LED3 SPECIFICATIONS

### Fixture Sizes

- 2 Fixture Sizes Available

### Lumen Range / LPW

- 10,000 to 38,000 Lumen, up to 142 LPW

### Factory Installed Features and Options

- 3 Light Distribution Types
- 6kA/10kV Surge Protection Standard
- 120-277v, 347v, and 480v
- Three Fixture Colors Available
- 80 CRI Standard; 4000K or 5000K
- 3-Pin Photocell or 7-Pin Receptacle

### Control Types Available

- Photocell 120-277v, 347v and 480v
- Manual Programming Sensor

### Certifications / Listings\*

- UL Standard
- UL Wet Rated
- IP65

### Mounting Options

- Square Pole Mount
- U Bracket
- Slipfitter Mount

Die-cast aluminum housing with powder coat finish for harsh outdoor environments

Available in bronze, black and white fixture colors

Uniform light distribution in multiple light distribution types to put light where needed



\*Varies by fixture configuration

# LED WALL PACKS

## HARRIS LUMEN SELECT WALL PACK SEMI-CUTOFF, GEN 1

### LSWS1 SPECIFICATIONS

#### Fixture Sizes

- 3 Fixture Sizes Available



#### Lumen Range / LPW

- 3,000 to 18,000 Lumen, up to 161 LPW.
- Each lumen package allows for field adjustment of lumen output



#### Factory Installed Features and Options

- 3 Fixture Colors Available
- 6kA/10kV Surge Protection Standard
- 120-277v
- 80 CRI Standard; 3000K, 4000K or 5000K Field Adjustable CCT

#### Field Installed Options

- Light Shield Options
- Sensor Options
- Wire Guard Available

#### Control Types Available



- Integrated Photocell Comes Standard
- Microwave Sensor with Remote Control
- PIR Sensor with Remote Control

#### Certifications / Listings\*

- DLC Listed Premium
- cULus Certified
- UL Wet Rated

#### Mounting Options

- Back-plated design with template to mount directly over a standard recessed junction box for surface mounting

Back-plated design with template to mount directly over a standard recessed junction box



Heat and impact resistant borosilicate glass lens

Integrated Photocell comes standard

Die-cast aluminum housing with powder coat finish for harsh outdoor environments

\*Varies by fixture configuration

# LED WALL PACKS

## HARRIS LUMEN SELECT WALL PACK FULL CUTOFF, GEN 1

### LSWF1 SPECIFICATIONS

#### Fixture Sizes

- 2 Fixture Sizes Available



#### Lumen Range / LPW

- 3,000 to 18,000 Lumen, up to 151 LPW.
- Each lumen package allows for field adjustment of lumen output



#### Factory Installed Features and Options

- 3 Fixture Colors Available
- 10kV Surge Protection Standard
- 120-277v
- 80 CRI Standard; 3000K, 4000K or 5000K Field Adjustable CCT
- Battery Backup Available

#### Field Installed Options

- Sensor Options Available

#### Control Types Available



- Photocell Comes Standard
- Microwave Sensor with Remote Control
- PIR Sensor with Remote Control

#### Certifications / Listings\*

- Dark Sky Compliant
- cULus Certified
- DLC Listed Premium
- UL Wet Rated

#### Mounting Options

- Back-plated design with template to mount directly over a standard recessed junction box for surface mounting

Back-plated design with template to mount directly over a standard recessed junction box



UV-Resistant Polycarbonate Lens

Die-cast aluminum housing with powder coat finish for harsh outdoor environments

\*Varies by fixture configuration



# LED CANOPY LIGHTS

## HARRIS LUMEN SELECT CANOPY SQUARE, GEN 1

### LSCS1 SPECIFICATIONS

#### Fixture Sizes

- 2 Fixture Sizes Available



#### Lumen Range / LPW

- 4,000 to 12,000 Lumen, up to 150 LPW. Each lumen package allows for field adjustment of lumen output



#### Factory Installed Features and Options

- 3 Fixture Colors Available
- 6kA/10kV Surge Protection Standard
- 120-347v
- 70 CRI Standard; 3000K, 4000K or 5000K Field Adjustable CCT

#### Control Types Available



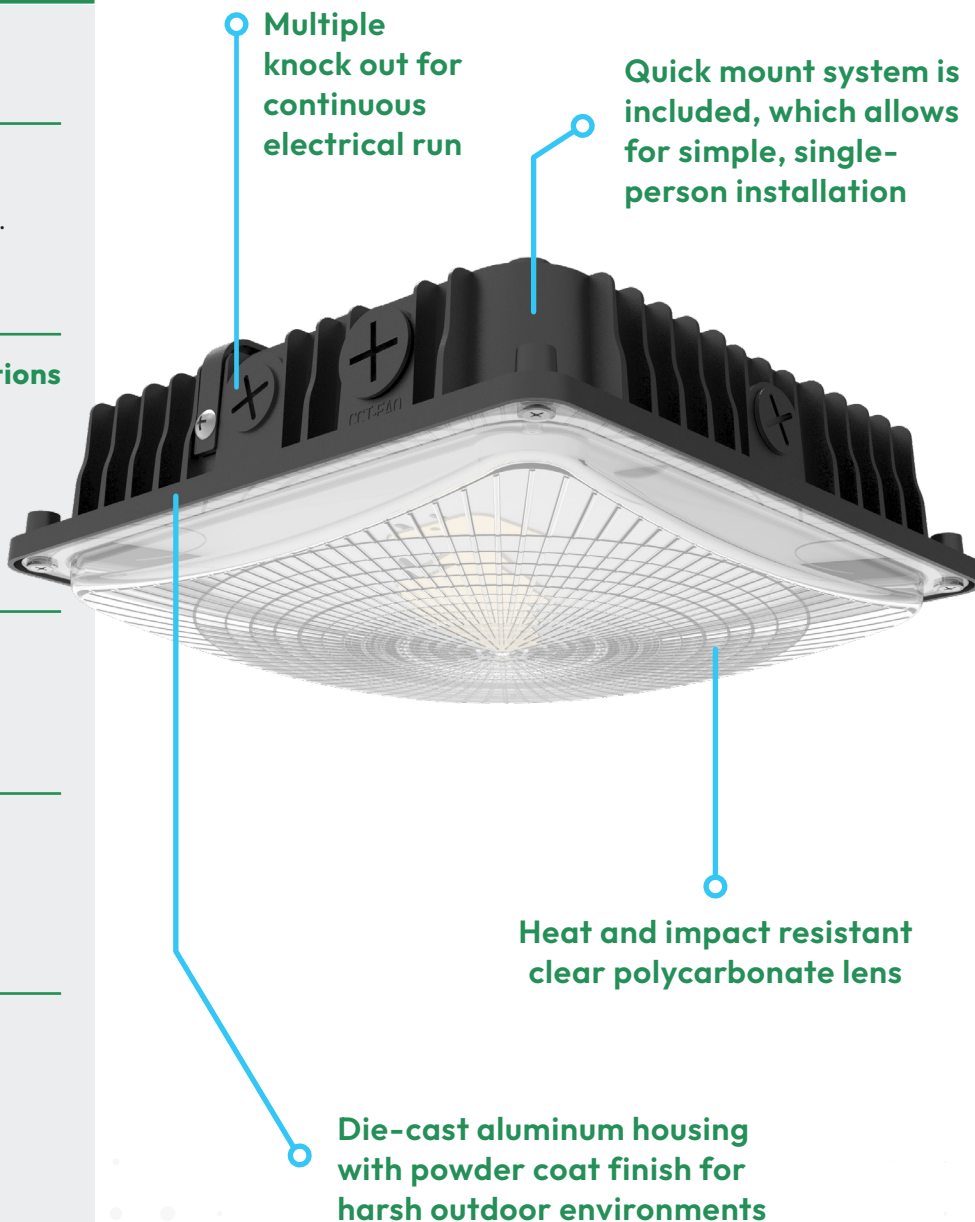
- Microwave Sensor with Remote Control
- Photocell Option

#### Certifications / Listings\*

- DLC Listed Premium
- cULus Certified
- UL Wet Rated

#### Mounting Options

- Quick mount system is included, which allows for simple, single-person installation



\*Varies by fixture configuration

# LED FLOOD LIGHTS

## HARRIS LED ARCHITECTURAL FLOOD LIGHT, GEN 3

### FLGA3 SPECIFICATIONS

#### Fixture Sizes

- 4 Fixture Sizes Available

#### Lumen Range / LPW

- 2,000 to 26,000 Lumen, up to 137 LPW

#### Factory Installed Features and Options

- Photocell Available
- 6kA/10kV Surge Protection Standard
- 120v-277v or 347v-480v
- 70 CRI Standard; 4000K or 5000K
- Bronze Color Standard

#### Control Types Available



- Photocell Option

#### Certifications / Listings\*

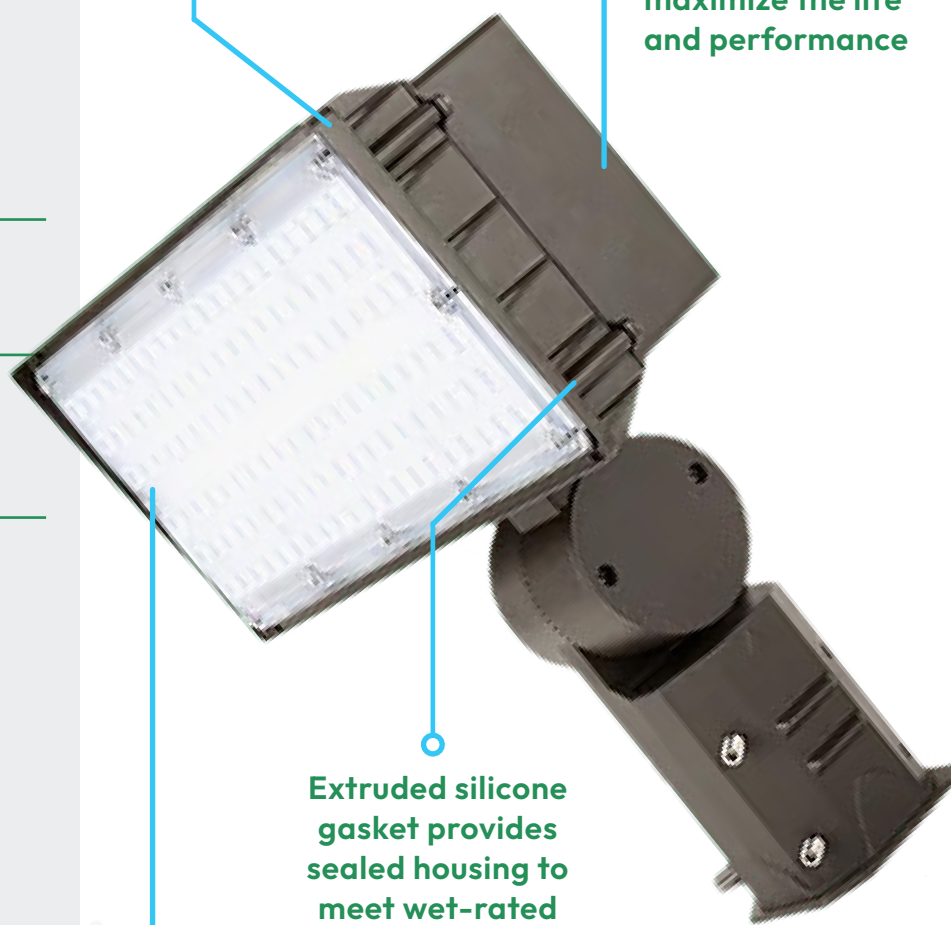
- cULus Certified
- UL Wet Rated

#### Mounting Options

- Trunnion
- Slip Fitter
- Knuckle

Die-cast aluminum housing with powder coat finish for harsh outdoor environments

Housing is designed to isolate LED from driver in order to maximize the life and performance



Extruded silicone gasket provides sealed housing to meet wet-rated standards

High-performance acrylic optics offer NEMA Type Optics 7Hx6V

\*Varies by fixture configuration

# Lighting Controls

Integrate fixtures with intelligent lighting controls to increase effectiveness and energy savings.

## BENEFITS OF LED EXTERIOR LIGHTING CONTROLS



### Increased Energy Savings

Controls allow for programmable time settings or motion sensors that enable users to light a space only when it's occupied, decreasing energy costs.



### Better Security and Improved Safety

Lights triggered by security system-connected controls help deter crime and alert property managers to activity where occupancy isn't expected or allowed.



### Lighting Pollution Mitigation

LED fixtures combined with controls allow for less light pollution. Orion offers a variety of Dark Sky-approved products that eliminate the threat to local nighttime environments.

## LED EXTERIOR LIGHTING CONTROL TECHNOLOGY TYPES



### PHOTOCELL SENSOR

Photocell sensors automatically adjust to surrounding ambient light levels triggering exterior lights to turn on and off - regularly activating at sunset and dawn.



### MICROWAVE SENSOR

Consistently sending out high-frequency radio waves at 360 degrees, microwave sensors identify changes in return waves to detect movement and are particularly effective for large coverage areas. Users can program microwave sensors in the field to their preferred time a light should stay on when triggered.



### PASSIVE INFRARED (PIR) SENSOR

A PIR sensors measure infrared light radiating from objects in its field of view. It is commonly used to identify the presence of people for increased security.



# Energy-As-A-Service

Orion's Energy-As-A-Service finance solution provides customers with access to **a suite of premier lenders at preferred rates** to finance their facility's sustainability and operations projects **without the need to draw from cash reserves**.

Don't wait for capital project approval to capture energy savings and optimize your business. Move forward with your sustainability projects through Orion's Energy-As-A-Service.



## ACCELERATE ROI

Capture immediate energy reduction savings without capital investment.



## NO CASH DOWN

Keep your cash flow flexibility to invest in revenue-generation business operations.



## PREMIER LENDERS

Select from a suite of Orion-approved lenders to accelerate underwriting and lock in industry-leading rates.



## COMPLETE FINANCING

Incorporate every aspect of the project such as facility audits, shipping, and installation with no minimums or maximums.



## CUSTOMIZED TERMS

Finance all or a portion of the project. Select from a variety of term lengths that best suits your needs.

Receive the same industry-leading products and services from Orion Energy Systems.

- ✓ Sustainable LED Lighting
- ✓ EV Charging Solutions
- ✓ Ongoing Maintenance Programs
- ✓ Facility and Site Audits
- ✓ Program Management
- ✓ Customized Solutions



# Product Warranty Options

We back our products with excellent warranty coverage to provide you peace-of-mind in case of unexpected product breakdowns. Review our options below to determine the best warranty coverage for your needs.



## Standard 5-Year Limited Warranty

Standard warranty coverage includes mechanical and electrical component failure during the term.

- + Five-year product warranty coverage comes standard on all LED fixtures.



## Extended 10-Year Warranty

Orion's 10-year Extended Warranty provides additional coverage for the replacement or repair of LED products including critical electronic components such as sensors, drivers, hardwired cords, and LED boards.

- + Is in addition to, and does not replace, standard warranty coverage.
- + Available at additional cost.
- + All Orion fixtures are eligible for the additional 10-year coverage.
- + Extended warranty is backed by a highly rated insurance company.

*Fixtures must be operated in accordance with listed product specifications for product warranties to remain valid. Subject to terms and conditions available on Orion's website.*



# Orion Maintenance Services

Let our certified lighting technicians service and maintain lighting systems and components so you can focus on your business.

- Nationwide team of skilled and certified lighting and electrical professionals located throughout the US
- Currently providing preventative and reactive lighting and electrical services at over 8000 customer locations throughout the US and Caribbean

## CUSTOMER SATISFACTION IS ALWAYS OUR TOP PRIORITY:


✓ Contract pricing to keep costs down.


✓ A comprehensive team of licensed electricians / technicians at your disposal.


✓ Fully equipped trucks to eliminate return trips.


✓ Regular reporting and status updates on each call service call.

## OUR ALWAYS-AVAILABLE EXPERT TECHNICIANS:

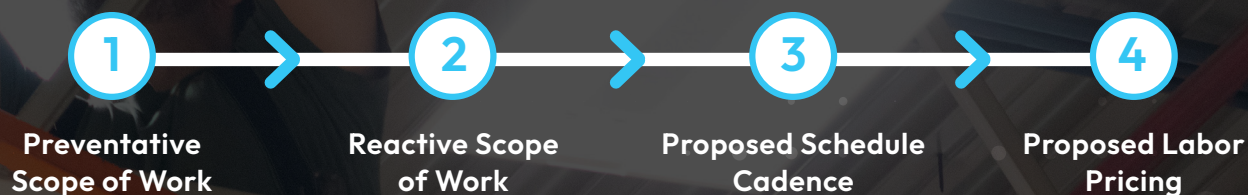
 Are nationwide to quickly respond to any location.

 Respond to warranty claims and time-critical service calls.

 Communicate directly with end-user customers to save you time and money.

 Are always on-call to be on site within 48 hours - or sooner.

## Maintenance Process





# Orion Also Offers Indoor Lighting Solutions

Our solutions are greater than just the exterior of your building. Integrate our indoor lighting fixtures with our control solutions for maximum energy saves and efficiency.



## HIGH BAYS

These fixtures are utilized in higher ceiling applications from 20' up to 40' such as industrial spaces like manufacturing facilities, cold storage applications, and gymnasiums.



## LINEAR / LINEAR RETROFIT

Linear fixtures can be used in lower ceiling heights that may require electrical raceways in between fixtures such as retail facilities, office buildings, and schools.



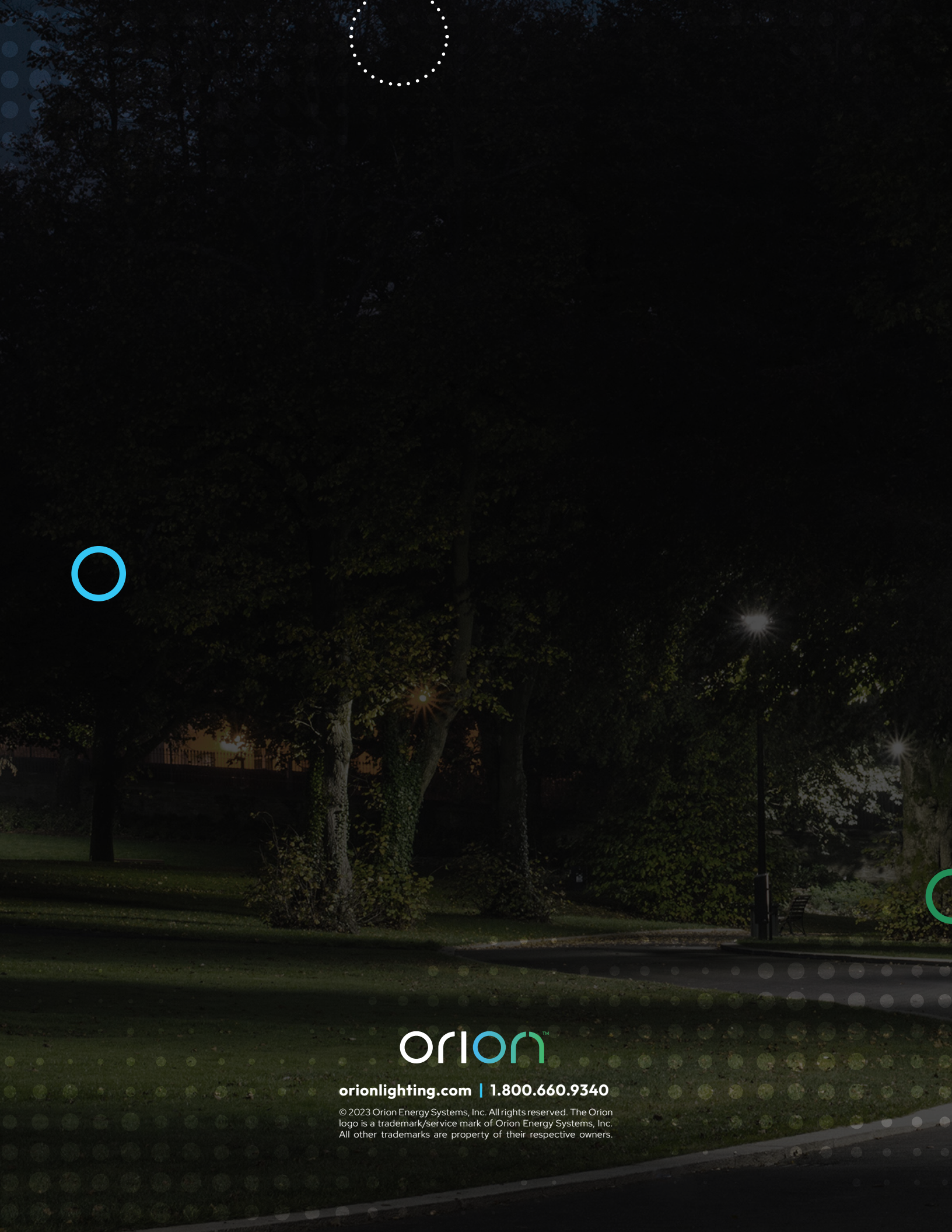
## TROFFER / TROFFER RETROFIT

Easily upgrade your T-bar lay-in grid ceiling with our LED troffer and troffer retrofits to create uniform lighting that can easily be integrated with controls. These fixtures are typically seen in office buildings, schools and healthcare facilities.



## HEALTHY LIFE / UV-C FIXTURES

Create a healthy environment using Orion's premium disinfecting lights and/or air movement fixtures to create a safer place for your employees and customers by creating continuous air flow or by sterilizing the bacteria and viruses in the air.



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