



shat·r·shield

THE PROTECTIVE LIGHTING COMPANY

INDUSTRIAL

APPLICATIONS & PRODUCTS

CORROSIVE ENVIRONMENTS

INCOPLAS® Product Family

Incoplas® Hazardous Locations LED Hybrid is a durable multi-purpose and corrosion-resistant LED lighting solution that can be used in heavy industrial applications where classified lighting is required.

■ 45 or 90 Watts / 5,600 or 11,200 Lumens -22°F up to 122°F / 7.5 Pounds Class 1 Div 2 (A,B,C,D) / Class 2 Div 2 (F,G) Class 3 Div 1 & 2

Incoplas® LED Hybrid is designed with graphite infused thermal polymers for corrosion resistance and durability in harsh environments. Functional as an area, flood or wall pack light with a multitude of mounting and optic options.

■ 45 or 90 Watts / 5,000 or 10,000 Lumens -22°F up to 122°F / 7.5 Pounds

Incoplas® LED Vapor Tight is manufactured with thermally conductive engineered polymers specially designed to withstand moisture, dust and harsh environments in applications where exposure is detrimental to the life of the fixture.

■ 35 or 70 Watts / 3,500 or 7,000 Lumens / -22°F up to 122°F / 5 Pounds

	Incoplas® LED Hybrid™	Incoplas® LED Hybrid™ Hazardous Locations	Incoplas® LED Vapor Tight
Watts	45 / 90	45 / 90	35 / 70
Lumens	up to 5,600 / up to 11,200	5,000 / 10,000	3,500 / 7,000
Operating Temp	-22°F (-30°C) to 113°F (45°C)	-22°F (-30°C) to 113°F (45°C)	-22°F (-30°C) to 113°F (45°C)
Weight	7.5 lbs.	7.5 lbs.	5 lbs.
L70	60,000 / Projected: 100,000	60,000 / Projected: 100,000	54,000 / Projected: 85,000
Voltage	120-277V		
CCT	4,000K / 5,000K		5,000K
LPW	up to 124	111	100
Replaces	100W & 250W HID; T5 & T8 fixtures		2 or 4 lamp, 4' T8 fixture
Mounting	Surface, Trunnion, Pendant, Adjustable Wall Pack, Stanchion, Flood	Surface, Trunnion, Pendant, Wall Pack, Adjustable Wall Pack, Stanchion, Flood	Aircraft Cable, Pendant, Conduit, Surface



Additional Products - IRONCLAD®

Incoplas® Hazardous Locations LED Hybrid is a durable multi-purpose and corrosion-resistant LED lighting solution that can be used in heavy industrial applications where classified lighting is required.

■ 45 or 90 Watts / 5,600 or 11,200 Lumens -22°F up to 122°F / 7.5 Pounds Class 1 Div 2 (A,B,C,D) / Class 2 Div 2 (F,G) Class 3 Div 1 & 2



Areas of Application

- Security Lighting
 - Mechanical Rooms, Aeration, Mixing & Holding
 - Digesters & Biofilters
 - Processing & Storage Areas
- Security Lighting
 - Mechanical Rooms, Aeration, Mixing & Holding
 - Digesters & Biofilters
 - Processing & Storage Areas

INCOPLAS® Key Features



Corrosion-Resistant

Our fixtures offer protection against over 200 corrosive agents including chlorine and hydrogen sulfide found in wastewater treatment plants.



Multiple Mounting Options

Multiple mounting options for enhanced versatility.



Compact Design

Lightweight and compact design of many fixtures make them an ideal choice in small areas, plus allowing for one-person installation.



Multiple Optic Options

Multiple optic packages to direct light onto pathways or larger beam spreads as needed.



Watertight

These fixtures are designed to withstand wet locations and will hold up against the continuous spray present in wastewater treatment plants.



Scratch-Resistant

Scratch-resistant design will never expose metal to corrosive agents.



Vibration Tested

Our fixtures have been vibration tested and will withstand the rigors of wastewater treatment plants.



Impact-Resistant

Impact-resistant lens for increased safety.



High Temperature

Operates in high temperature environments, up to 122°F.



Graphite Infused Thermal Polymer

Graphite infused thermal polymers offer non-metallic solution incorrosive environments.



COMMERCIAL APPLICATIONS

LED Product Fixtures

Incoplas® LED Hybrid The Incoplas® LED Hybrid withstands the tough and corrosive conditions present in marine applications. Manufactured with thermally conductive engineered polymers and 316 stainless steel screws, this fixture will hold up in harsh marine environments. This fixture also supports 120V DC power.

Applications: Shipbuilding • Docks • Marinas • Ferry Boats

■ **ABS, UL 1598A, UL 1598, UL Wet Location, IP69K, IP66, NEMA 4X, NEMA 5, USDA, NSF, DLC, cULus, RoHS**



	Incoplas® LED Hybrid™
Watts	45 / 90
Lumens	5,000 / 10,000
Operating Temp	-22°F (-30°C) to 113°F (45°C)
Weight	7.5 lbs.
L70	60,000 / Projected: 100,000
Voltage	120-277V
CCT	4,000K / 5,000K
LPW	111
Replaces	100W & 250W HID; T5 & T8 fixtures
Mounting	Surface, Trunnion, Pendant, Wall Pack, Adjustable Wall Pack, Stanchion, Flood

Ironclad® LED Vapor Tight High Bay The Ironclad® LED Vapor Tight High Bay is a fixture designed to withstand harsh applications and prolonged exposure to moisture. This fixture would be ideal in heavy industrial areas, like cargo holds because of its corrosion-resistance and rugged build.

Applications: Shipbuilding • Cargo Holds • Marinas

■ **IP65, IP66, IP67, UL 1598, UL Wet Location, NEMA 4X, NEMA 5, USDA, NSF, DLC, cULus, RoHS**



	Ironclad® Vapor Tight High Bay
Watts	158 / 236
Lumens	up to 22,120 / up to 32,860
Operating Temp	-40°F (-40°C) to 122°F (50°C)
Weight	30 lbs.
L70	L70 > 72,000 Projected: 100,000+
Voltage	120-277V / 347-480V
CCT	4,000K / 5,000K
LPW	140
Replaces	6 lamp, T8 or T5 fixture
Mounting	V-Hanger, Aircraft Cables, Ceiling Mount, Stainless Steel Adjustable Bracket

Areas of Application

- Restaurants
- Gymnasiums
- Department Stores
- Amusement Parks
- Parking Garages
- Pharmaceuticals
- Natatoriums
- Grocery Stores

Classic LED High Bay The LED High Bay is a direct 1-for-1 replacement for 400W HID lamps. This 200W fixture is ideal in applications with ceiling heights above 20 feet & the 280W fixture is perfect for ceiling heights above 30 feet. Full 7-year warranty.

■ UL Damp Location, DLC, cULus, RoHS

Classic LED Low Bay Shat-R-Shield's LED Low Bay utilizes the same construction as the LED High Bay. The durable and highly efficient Low Bay is a direct retrofit for HID lamps in industrial and commercial applications.

■ UL Damp Location, DLC, cULus, RoHS

	LED High Bay	LED Low Bay
Watts	200 / 280	100
Lumens	24,000 (200W) / 33,000 (280W)	12,500
Operating Temp	-40°F (-40°C) to 122°F (50°C)	-40°F (-40°C) to 122°F (50°C)
Weight	20 lbs.	
L70	>55,000	>55,000
Voltage	120-277V / 347-480V	
CCT	5,000K	
LPW	up to 120	125
Replaces	400W metal halides	175W metal halides
Mounting	Heavy duty hook	



General Product Lamps

Heat Lamps Available in both clear and red, the protective coating provides assurance that glass cannot come in contact with food in warming stations, buffets or food preparation areas. The coating is rated to withstand temperatures of up to 500°F. The PFA coating protects the glass from thermal shock such as contact with water or grease.

Appliance Lamps & Task Lighting Shat-R-Shield offers a variety of safety-coated lamps for use as task lighting in appliances designed specifically for the food service industry.

Applications:

- F32T8 linear fluorescents for food prep stations
- 40A15 & 70PAR Halogen lamps for heated display cases or merchandisers
- Glass globes for exhaust hoods

General Dining Area Lighting While it is not mandated to have protective lighting installed in dining areas, it is still highly recommended for your customer's safety. That's why Shat-R-Shield offers safety-coated options for incandescent, compact fluorescent, halogen and LED lamps. These are ideal options for down lighting, spotlighting and decorative applications throughout the dining areas.

General Kitchen Lighting Shat-R-Shield boasts the highest quality shatter-resistant linear fluorescent lamps on the market. Available in T5, T8 and T12 varieties, there is an option to fill any need for overhead lighting in kitchens, dining rooms, refrigeration units or anywhere safety-coated lighting is needed.

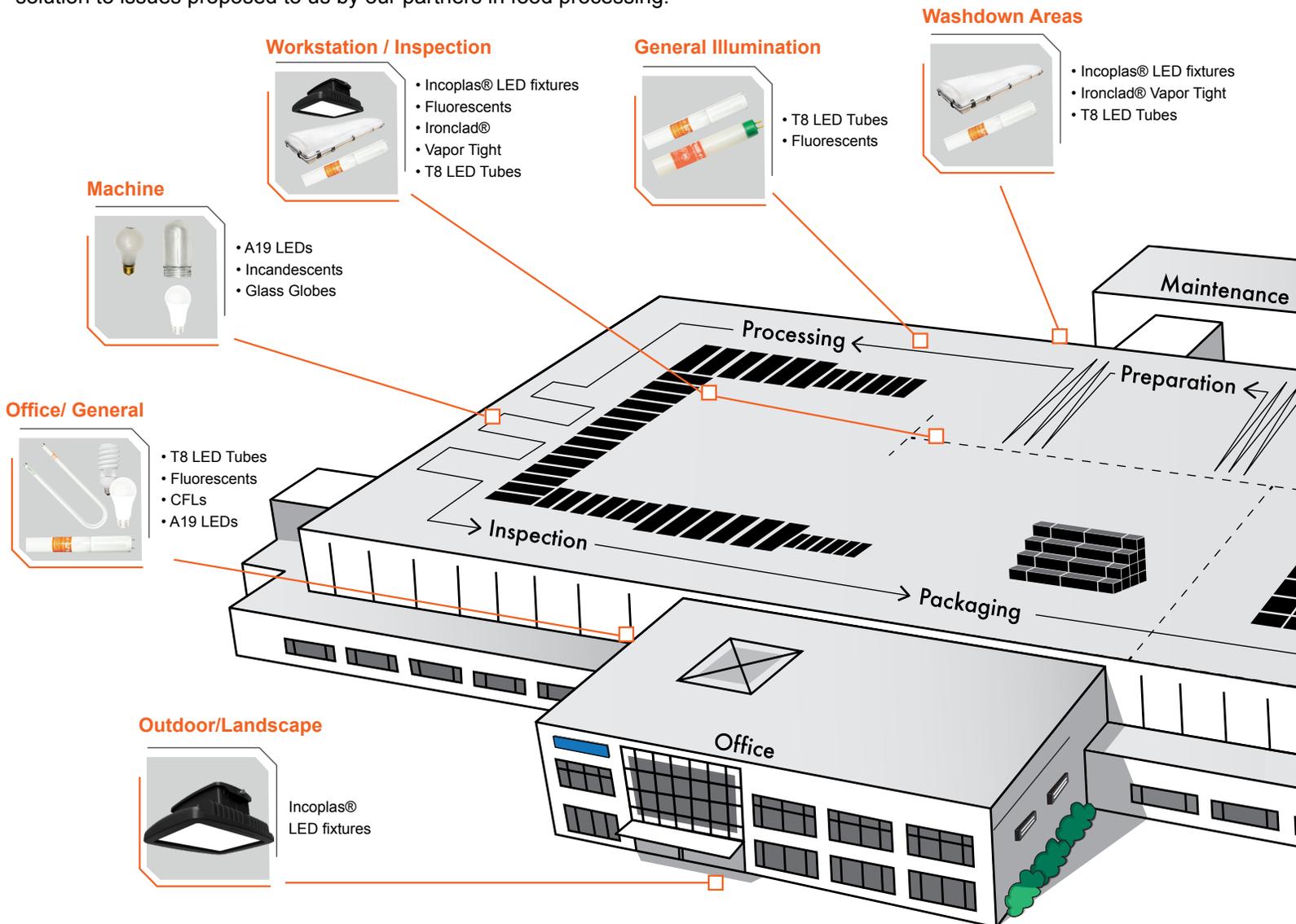
If energy efficiency is a priority in your kitchen, consider safety-coated, waterproof T8 LED lamp. It's integrated ballast allows for easy installation; simply bypass the existing wires and install. You will start saving on energy costs immediately and with its 40,000 hour rated life, it will be quite some time before you're changing lamps again.



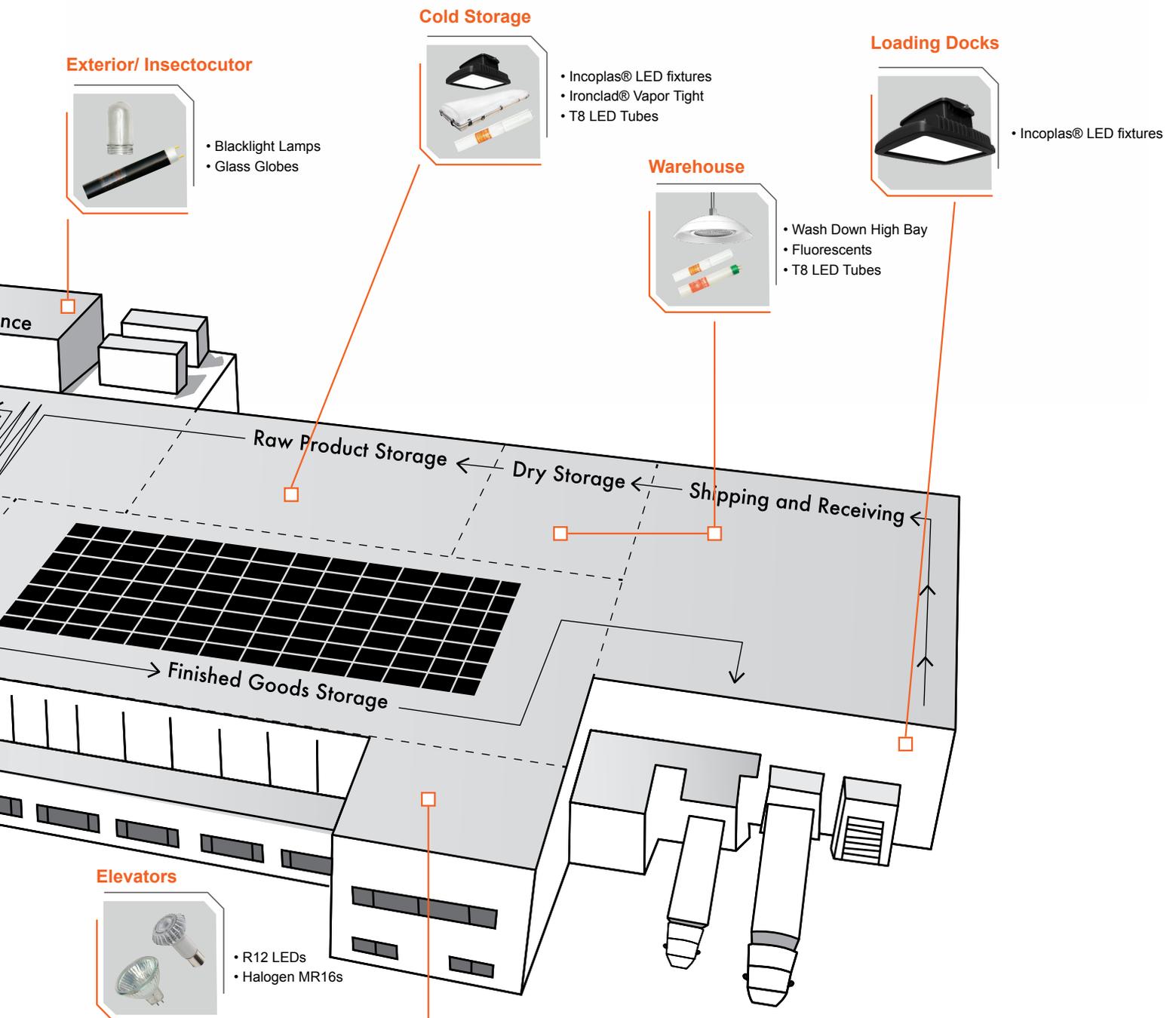
FOOD PROCESSING

Food Processing Application Map

From safety coated lamps to LEDs and fixtures, Shat-R-Shield is proud to manufacture lighting products designed especially for food processing facilities. We found our niche when we created the original shatter-resistant fluorescent lamp to protect your products, people and plant from the dangers of broken glass. Shat-R-Shield now boasts the largest portfolio of safety coated lighting in the industry. Since then, our offering has expanded to include products that provide a solution to issues proposed to us by our partners in food processing.



We've added waterproof LED lamps that are safety coated to prevent failure when exposed to moisture in wash-down areas. Our Incoplas® LED fixtures are made with thermally conductive polymers to prevent corrosion in environments exposed to chemicals and harsh elements. We have saved our customers thousands in energy costs by including high efficiency LED fixtures to retrofit antiquated light sources. Shat-R-Shield's brand thrives on the quality of products and service and we take pride in catering to the needs of customers. We're here to lighten the load.



GROCERY

Food Processing Application Map

Whether it's a grocery store or distribution center, We have you covered with a variety of coated lamps and industrial LED lighting fixtures.

Freezer Lamps

The LED T5 and T8 tubes work well in freezing temperatures and are safety coated for optimal protection. Available in multiple wattages.

Produce Lamps

The fluorescent tubes offer safety-coated protection and are guaranteed not to yellow, crack or flake for the rated life of the lamp.

Aisle Lighting

Our Classic LED High Bay replaces outdated HIDs. Ideal for storage areas with ceilings above 20'. The Classic LED Low Bay is ideal for heights below 20'.

Cold Storage

The Ironclad® LED VTHB operates in temperatures as low as -40°F. The Incoplas® LED Hybrid in operates in temperatures as low as -22°F. Both IP69K & NSF.

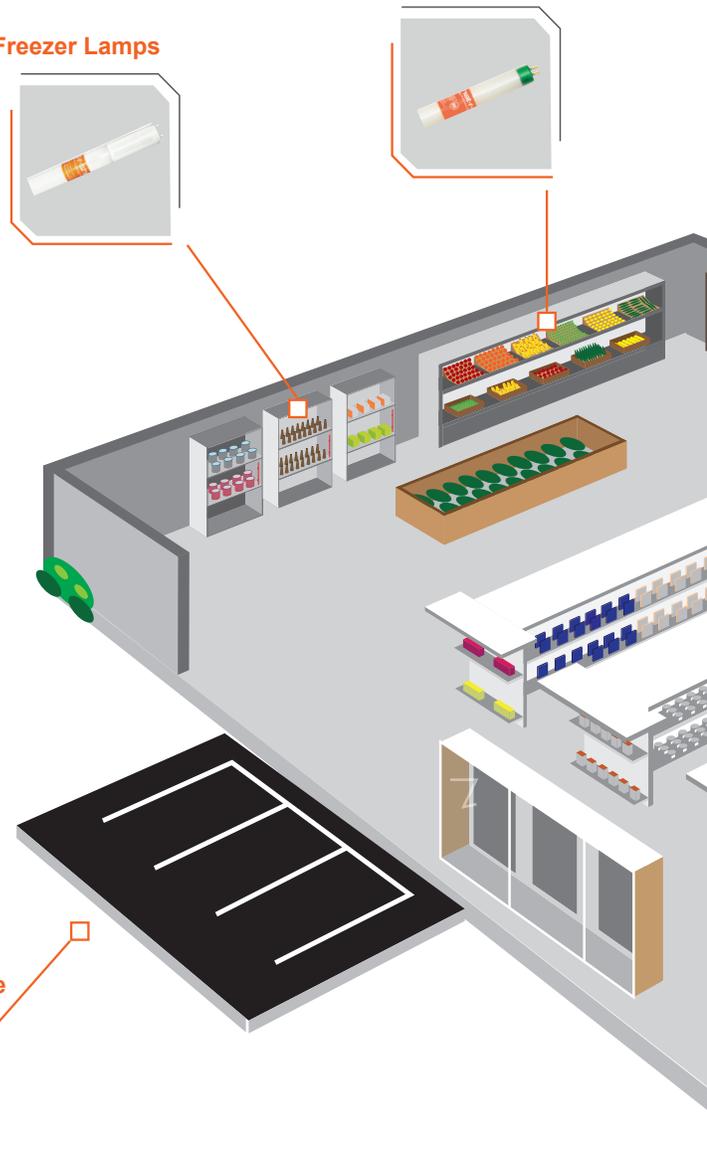
Loading Dock

The Incoplas® LED Hybrid wall pack is ideal for security lighting and is corrosion-resistant for optimal weather protection.

Produce Lamps

Freezer Lamps

Waterproof Landscape



Insect Control

The insect electrocutor units rely on black lights to attract insects with UV light. These will protect your food storage areas from unwanted insects.

Deli Counter

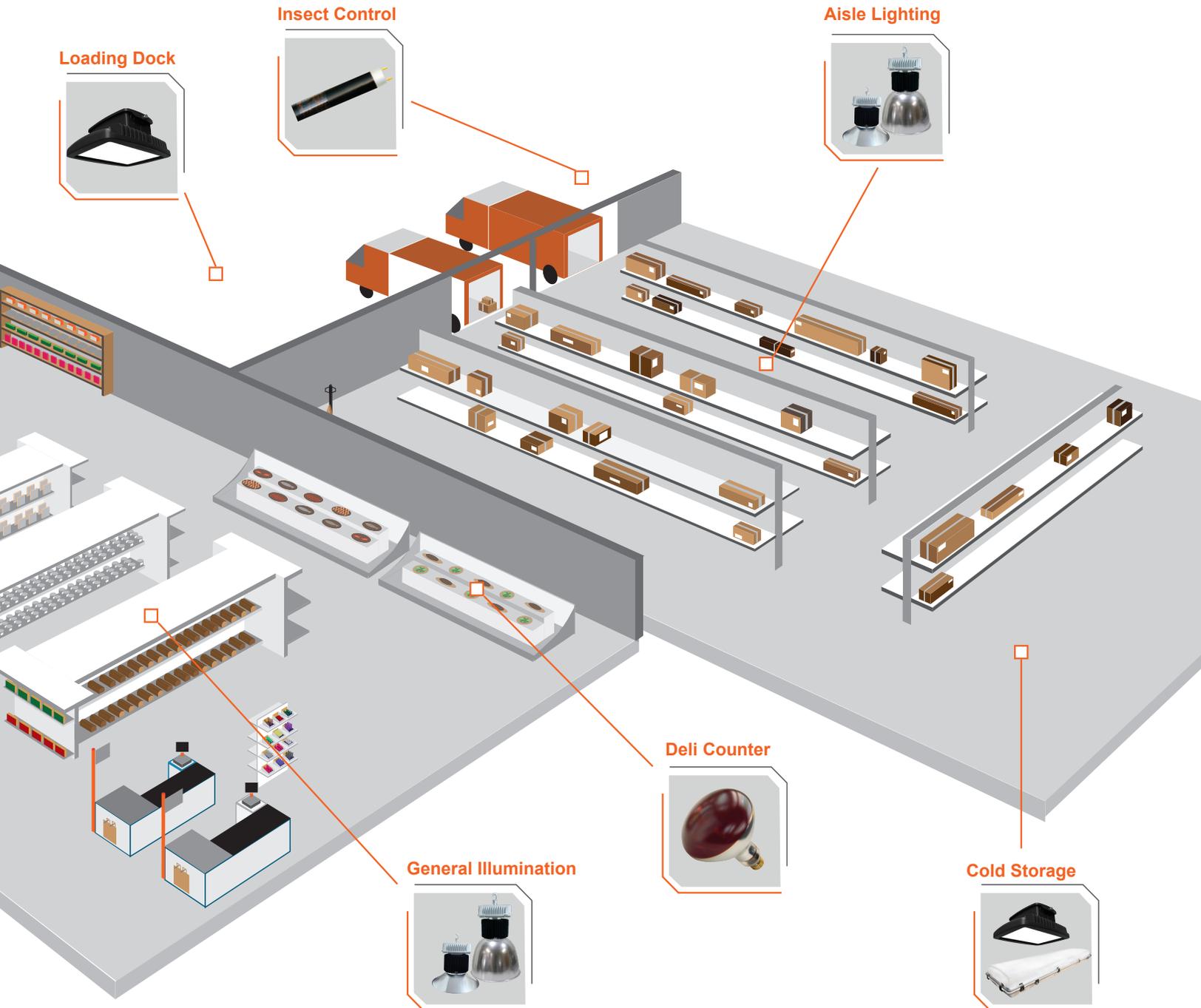
Our Incandescent heat lamps are ideal for keeping prepared foods at the deli counter warm. They can withstand temperatures up to 400°F.

General Illumination

Our high output high bay fixtures are lightweight for easy installation and are energy efficient. Their modern aesthetic is ideal for grocery retail.

Waterproof Landscape

The IP68 rated waterproof LED A19s are great for illuminating outdoor walkways for safety. Waterproof sockets are also available.



CERTIFICATION KEY

- **DLC:** Meets criteria for energy efficiency and has been included on the QPL (Qualified Products List). Signifying that a product is eligible for rebates, where applicable.
- **NSF:** Approved for use in facilities producing consumer goods, such as food and beverage processing and food service.
- **RoHS:** Restriction of Hazardous Substances Directive - prohibits the use of certain hazardous materials used in electrical and electronic devices.
- **IP65:** Protected against water spray from all directions and dust that may harm equipment.
- **IP66:** Protected against high pressure water jets (all directions) and dust that may harm equipment.
- **IP67:** Protected against strong water jets and waves and dust that may harm equipment.
- **IP68:** Protected against temporary immersion and dust that may harm equipment.
- **IP69K:** Protection against close range high temperature, high pressure wash down (1450 PSI at 176°F).
- **cULus:** Product is UL certified for use in Canada and the US.
- **UL Damp Locations:** Suitable for locations normally or periodically subject to condensation in, on, or adjacent to equipment including partially protected locations.
- **UL Wet Locations:** Suitable for a location in which water or other liquid can drip, splash or flow on or against electrical equipment.
- **UL 844:** Standard for luminaires for use in hazardous (classified) locations.
- **UL 1598:** Standard applies to luminaires for use in non-hazardous locations.
- **UL 1598A:** Standard for luminaires installation on marine vessels.
- **NEMA 4X:** Corrosion resistant; Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water, and corrosion; and that will be undamaged by the external formation of ice on the enclosure.
- **NEMA 5:** Dust tight; Enclosures constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt; against settling airborne dust, lint, fibers, and flyings; and to provide a degree of protection against dripping and light splashing liquids.
- **ABS:** American Bureau of Shipping; Safety and quality standard for ships and offshore structures; often required for products used in marine applications.



Correctional/Behavioral



Food Processing



Oil & Gas



Commercial/Industrial



Pharmaceutical



Mining



Wastewater Treatment



Retail & Hospitality



Marine

