Industrial Lighting Solutions
Portfolio Brochure

GE current
a Daintree company
Our Mission

Current empowers people to build a smarter future with advanced lighting and intelligent controls. Our team of employees and partners work together to create inspired, uplighting environments that make people safer, more comfortable and more productive.

Dependability is in our DNA

Every Current product is designed with our Six Sigma methodology, a highly detailed, intensive process that defines specific product performance upfront—and then creates a solution to meet or exceed that goal.

Our commitment to reliability starts at the top and extends to every member of our team. We put our money where our mouth is by investing millions of dollars annually in facilities, equipment, people and processes that allow us to consistently deliver on our reliability promise.

In addition to our sourcing relationship with the top LED manufacturers in the world, our own in-depth knowledge of semiconductor material science gives us strategic insight into LED functionality and limits, enabling us to produce higher quality, more reliable products.

Our Brands

- **Daintree®**: Build intelligent environments with our innovative line of advanced lighting controls and powerful energy management applications.
- **Lumination®**: Lumination LED luminaires provide the advantages of LED indoor lighting at an affordable cost, for a variety of indoor lighting applications.
- **Albeo®**: Innovative industrial LED lighting luminaires for use in a variety of operating conditions. Ideal for any industrial lighting application.
- **Evolve®**: Outdoor luminaires for roadway lighting, area lighting, flood lighting, tunnel lighting and other commercial outdoor lighting applications.
- **Lamps & Tubes**: LED Tubes and Lamps are a smart, efficient and long-lasting solution to replace traditional lighting.
Industrial Portfolio

Hazardous Locations
Our LED fixtures offer hazardous location lighting rated for Class 1, Division 2, Groups A, B and C. Suitable for new construction and perfect for high ambient temperatures and wet-rated locations. Ideal for areas where explosive vapors and/or fumes are present and Class/Division rated fixtures are required.

Commercial - Indoor
In industrial and warehouse settings, lighting must be energy efficient, promote the safety and productivity of workers, be easy to maintain, and comply with a variety of building codes depending on the environment. That’s why Current offers a line of innovative indoor LED fixtures for use in a variety of operating conditions.

NSF Rated Applications
Our LED fixtures offer NSF and IP rating for a variety of demanding environments. Ideal for areas that may include wet and/or corrosive environments where sealed fixtures are required due to the levels of splash zone.

Commercial - Outdoor
Choose Current outdoor commercial luminaires for roadway lighting, area lighting, flood lighting, tunnel lighting and other commercial outdoor lighting applications.

Industrial Portfolio

Food Processing
Cafeterias/Kitchens
Cold Storage

Automotive Plants
Storage Areas
Gymnasiums

Industrial Parking Lots
Loading Docks
Parking Garage

Oil Refineries
Petro Chemical Plants
Nuclear Power Plants

High Bay
Low Bay
LED Tubes

High Bay
Low Bay

Flood Lights
Area Lights

High Bay
Flood Lights
LED HID

4 5
Current lighting fixtures come with the power of Daintree® Wireless Controls already integrated and pre-installed. That means the advanced technology sensors are built-in for reduced installation labor and a world of functionality options. Choose from three levels of control capability with Daintree One, Daintree EZ Connect and Daintree Networked. It’s the system that lets you choose the degree of control you want now, with the option to upgrade in the future.

Scalable IoT Infrastructure

Stand Alone
Integrated High Bay Sensors
Commissioned with WHR1 Remote
Independent Lighting Controls

Room Based
Simple Room-Based Systems,
Configured with mobile app
Control Aisles or Zones

Networked Controls
Single and multi-site network that can integrate with BMS systems. Scheduling and real-time data with Daintree Controls Software
Building-Wide Management
The IP Code, International Protection Marking, IEC standard 60529, sometimes interpreted as Ingress Protection Marking, classifies and rates the degree of protection provided by mechanical casings and electrical enclosures against intrusion, dust, accidental contact, and water.

<table>
<thead>
<tr>
<th>Solid Level of Ingress Protection</th>
<th>Water Level of Ingress Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Protected against a solid object greater than 50mm, such as a hand.</td>
<td>1 Protected against vertical dripping water. Limited liquid entry.</td>
</tr>
<tr>
<td>2 Protected against a solid object greater than 12mm, such as a finger.</td>
<td>2 Protected against vertical dripping water when tilted up 15°. Limited liquid entry.</td>
</tr>
<tr>
<td>3 Protected against a solid object greater than 2.5mm, such as a screwdriver.</td>
<td>3 Protected against vertical spraying water at an angle up to 60°. Limited liquid entry.</td>
</tr>
<tr>
<td>4 Protected against a solid object greater than 1mm, such as most screws and wires.</td>
<td>4 Protected against Water splashing against any direction with no harmful effect. Limited liquid entry.</td>
</tr>
<tr>
<td>5 Dust protected. Prevents ingress of dust sufficient to cause harm.</td>
<td>5 Protected against jets of water from all directions. Limited liquid entry.</td>
</tr>
<tr>
<td>6 Dust tight. No ingress of dust.</td>
<td>6 Protected against strong jets of water from all directions. Limited liquid entry.</td>
</tr>
<tr>
<td><strong>Examples:</strong></td>
<td><strong>Examples:</strong></td>
</tr>
<tr>
<td>IP5X: Standard protection, able to protect against ingress of dust and powerful water jets.</td>
<td>7 Protected against the effects of water immersion between 15cm &amp; 1m.</td>
</tr>
<tr>
<td>IP67: A NSF level rating, able to protect against Immersion up to 1m.</td>
<td>8 Protected against the effects of water immersion between 15cm &amp; 1m.</td>
</tr>
<tr>
<td>9 Protected against high temperature, high pressure water and stream.</td>
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**What are IP Definitions?**

Current’s LED industrial portfolio offers a wide variety of Commercial Albeo® indoor high bay lighting fixtures to meet all application needs, including warehouse lighting, recreation center lighting, hangar lighting and storage lighting. Current’s LED indoor lighting fixtures provide industrial and commercial lighting to help improve safety and energy efficiency while enhancing productivity. Designed for applications of 20 feet (6 meters) or more.

**Commercial High Bays**

**Low Bays**

Current’s LED industrial portfolio offers a wide variety of Commercial Albeo® indoor low bay lighting fixtures to meet all application needs, including warehouse lighting, recreation center lighting, hangar lighting and storage lighting. Current’s LED indoor lighting fixtures provide industrial and commercial lighting to help improve safety and energy efficiency while enhancing productivity. Designed for low mounting heights of 20 feet (6 meters) or less.
In general, Lighting equipment falls under the Special Equipment/Devices, NSF C-2 listing procedure. This C-2 procedure requires a thorough analysis of the physical design, the distinct properties used by the manufacturer and production of the fixture. Lastly, NSF also investigates the dependability of the manufacturer and its assembly process as it pertains to the listed fixtures.

Below are the NSF certifiable areas where LED tubes play in: NON-FOOD ZONE, SPLASH ZONE, and FOOD ZONE.

<table>
<thead>
<tr>
<th>NSF Certification</th>
<th>Location Descriptions</th>
<th>Typical Lighting Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>NON-FOOD ZONE</td>
<td>Exposure: • No direct contact with food products • Cleaning solvents Design considerations: • Resistance to cleaning solvents (on lens, housing, etc.) • Glass breakage (prevent contaminating food products)</td>
<td>• Kitchens • Food Storage • Dry process areas • Damp process areas - no drip possibility</td>
</tr>
<tr>
<td>SPLASH ZONE</td>
<td>Exposure: • No direct contact with food products • High-pressure wash-downs Design considerations: • Durable and water-shedding • Resistance to harsh cleaning solvents • Glass breakage (prevent contaminating food products)</td>
<td>• Wet or damp process areas • High pressure purging or decontamination used • Areas using hose washdown</td>
</tr>
<tr>
<td>FOOD ZONE</td>
<td>For areas where direct contact with food products is expected and surfaces from which the food may drip, drain, or splash back onto areas normally in contact with food</td>
<td>• Food Processing • Industrial</td>
</tr>
</tbody>
</table>

Current’s LED industrial portfolio offers a wide variety of Demanding Albeo® indoor low bay lighting fixtures to meet all application needs, including food processing plants and packaging areas. Current’s LED indoor lighting fixtures provide industrial and commercial lighting to help improve safety and energy efficiency while enhancing productivity. Designed for low mounting heights of 20 feet (6 meters) or less.

Current’s LED industrial portfolio offers Demandning NSF Splash Zone and Food Zone Rated indoor LED Tube lighting solutions to meet all application needs, including food processing plants and packaging areas. It provides a value-focused LED solution to help improve safety and energy efficiency while enhancing productivity. Current offers both shatter containment (PET Coated Glass) and shatter resistance and certified drop test containment (CovRGuard® Heat-sealed polycarbonate sleeved Glass) tubes that are NSF rated. PET Glass is NSF Splash Zone Rated, whereas CovRGuard® tubes are NSF Food Zone rated.
HAZARDOUS LED Solutions

What’s Considered a Hazardous Locations?

Hazardous rating is critical for the following applications: refineries, drilling rigs, petrochemical facilities, food & beverage facilities, and other heavy industrial areas where flammable vapors, gases, ignitable dusts, fibers or flyings are present:

- **Class I**: Natural gas, petroleum and chemicals
- **Class II**: Combustible dusts that can be found inside plastic, coal, pharmaceutical and flour processing locations
- **Class III**: Flammable fibers produced in wood, cotton and textile industries

### NEC Class | Division | Typical Atmosphere and Auto Ignition Temperatures

| I | GASES, VAPORS | A | Normally hazardous | Acetylene (60°C, 140°F) |
| | | B | Hydrogen (50°C, 122°F) manufactured gases containing more than 35% hydrogen (by volume) |
| | | C | Ethylene (80°C, 176°F) cyclopropane (65°C, 150°F) |
| | | D | Hexanes (65°C, 149°F) butane (50°C, 122°F) propane (50°C, 122°F) acetone (55°C, 131°F) benzene (60°C, 140°F) gasoline (65°C, 149°F) |

| 2** | Not Normally Hazardous | A, B, C, D | Same as Division 1 |

| II | COMBUSTIBLE DUSTS | E | Normally hazardous | Metal Dust, including aluminum, magnesium, and their commercial alloys, and other metals of similar hazardous characteristics |
| | | F | Carbon black, coal, coke dust |
| | | G | Flour, starch, grain dusts |
| 2** | Not Normally Hazardous | G | Same as Division 1 |

| III | EASILY IGNITABLE FIBERS & FLYINGS | 1, 2 | Same as Class II, Division 2 |

**HAZARDOUS FLOOD LIGHTS**

Current’s LED industrial portfolio offers a wide variety of Hazardous Evolve® outdoor flood lights to meet all application needs, including oil refineries, petrochemical facilities, and other heavy industrial areas where flammable vapors, gases, ignitable dusts, fibers or flyings are present. Current’s LED indoor lighting fixtures improve safety and energy efficiency while enhancing productivity.

**HAZARDOUS LAMPS**

Current’s LED industrial portfolio offers a wide variety of Hazardous indoor LED HID lamps to meet certain heavy industrial applications where flammable vapors, gases, ignitable dusts, fibers or flyings are present. Current’s LED HID Lamps improve safety and energy efficiency while enhancing productivity.