INDUSTRIAL CAPABILITIES
Hubbell Industrial Lighting has invested more than 40 years in lighting environments that range from vast warehouses to assembly industries and food processing facilities. Hubbell Industrial promises quality and quantity of light, maintenance cost savings, energy reduction and professional assistance when deciding which solution is best for your application.

Columbia Lighting is one of North America’s premier manufacturers of commercial and industrial lighting products. As a producer of a wide variety of specification and commercial grade luminaires, Columbia Lighting is a recognized leader in providing quality and innovation at competitive prices.

Dual-Lite has been a leading brand for life safety lighting since 1940, when the founder formed a unique concept whereby an exit sign could operate in both emergency and normal mode. Many Dual-Lite products have been industry firsts or incorporate innovative features. The impact of Dual-Lite’s product innovation has been so strong, it’s changed the perception and direction of life safety products throughout the entire lighting industry.
<table>
<thead>
<tr>
<th>Product</th>
<th>CSA/UL1598</th>
<th>IP</th>
<th>Class Loc.</th>
<th>Retail</th>
<th>Light Industrial</th>
<th>Demanding</th>
<th>Hazardous</th>
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**Product CSA/UL1598 UL IP Class Loc. Retail Light Industrial Demanding Hazardous**

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</table>

**Note 1: Inverters to be installed indoors for backing up fixtures located in all types of environments/applications.**

---

**CATEGORIES**

**BATTERY PACKS & INVERTERS**

**LUMINAIRES**

**LIFE SAFETY**

---

**Emergency Products Suitable for Indoor use with Industrial Luminaires**

<table>
<thead>
<tr>
<th>Product</th>
<th>CSA/UL1598</th>
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---

Note 1: Inverters to be installed indoors for backing up fixtures located in all types of environments/applications.
### SAVVANO
Decorative High Bay

<table>
<thead>
<tr>
<th>Lumen Range</th>
<th>Wattage Range</th>
<th>Lumens per Watt Range</th>
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</thead>
<tbody>
<tr>
<td>8,000–28,000</td>
<td>73–219</td>
<td>99–123</td>
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</tbody>
</table>

**Features**
- Ten color accent options
- 80 or 90 CRI
- Multiple lensing and optic configurations
- Up to 123 lumens per watt

**Certifications**
- CSA Listed to UL 1598
- Damp location

**Applications**
- Fitness gyms
- Schools
- Retail
- Decorative high bay locations

---

### LWS
16” x 24” Suspended High Bay/Low Bay

<table>
<thead>
<tr>
<th>Lumen Range</th>
<th>Wattage Range</th>
<th>Lumens per Watt Range</th>
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</thead>
<tbody>
<tr>
<td>7,361–24,788</td>
<td>59–174</td>
<td>116–154</td>
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</tbody>
</table>

**Features**
- Aircraft cable hanging system or pendant mount bracket available
- Long-life, 60,000 hour LEDs at L80 reduce life cycle maintenance costs
- Four LED color choices and 90 CRI
- Diffuse wrap lens available

**Certifications**
- CSA Listed to UL 1598
- Damp location
- UL 2108
- UL 924 on emergency equipped fixtures
- DLC® Qualified*

**Applications**
- Industrial and retail
- Aisle and open areas

---

### MEGAPLANE™
MPL Industrial High Bay/Low Bay

<table>
<thead>
<tr>
<th>Lumen Range</th>
<th>Wattage Range</th>
<th>Lumens per Watt Range</th>
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</thead>
<tbody>
<tr>
<td>6,000–25,000</td>
<td>49–192</td>
<td>106–140</td>
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</tbody>
</table>

**Features**
- Linear hanging fixture in 4’ and 8’
- Long life, 60,000 hour LEDs at L80 (up to 150,000 projected life) reduce life cycle maintenance costs
- 80 CRI standard and 90 CRI optional
- Optional decorative frosted drop lens

**Certifications**
- CSA Listed to UL 1598
- Damp location
- UL 924 on emergency equipped fixtures
- UL 2108
- DLC® Qualified*

**Applications**
- Racks, stacks and aisles
- Dealership showrooms

*DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
PELOTON™
High Performance High Bay

**FEATURES**
- Uplight options from 1,000 to 4,000 lumens
- -40°C (-40°F) up to 65°C (149°F) ambient operation
- UL 924 with 10W and 20W emergency battery pack options
- NX Distributed Intelligence™ options

**CERTIFICATIONS**
- CSA Listed to UL 1598
- UL 924
- UL 2108
- Damp location
- DLC® Qualified*

**APPLICATIONS**
- Warehouses
- Gymnasiums
- Convention centers
- Large open commercial spaces

---

CHB
Linear High Bay

**FEATURES**
- 0–10V dimming to 10%
- -20°C up to 50°C ambient operation
- Universal voltage standard (120–277V); 347V, 480V optional
- On/off and dimming sensors available
- Optional battery backup
- Multiple cord and plug options

**CERTIFICATIONS**
- UL 1598
- Damp location
- DLC® Qualified*

**APPLICATIONS**
- Warehouses
- Gymnasiums
- Manufacturing and production areas
- Large open commercial spaces

---

UTILIBAY™
UTB2 High Bay

**FEATURES**
- Symmetrical design for consistent installed results
- Five reflector options
- Three optional lenses to meet your shielding needs
- Optional battery backup
- NX Distributed Intelligence™ options

**CERTIFICATIONS**
- CSA Listed to UL 1598
- Damp location
- UL 924 on emergency-equipped fixtures
- DLC® Qualified*

**APPLICATIONS**
- Warehouses
- Gymnasiums
- Retail

---

*DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)
**HBL**

**High Bay**

**LUMEN RANGE** | **WATTAGE RANGE** | **LUMENS PER WATT RANGE**
--- | --- | ---
10,000–21,000 | 112–169 | 91–100

**FEATURES**
- Custom engineered LED optics for evenly distributed light
- Rugged cast aluminum design
- Rated -40°C up to 55°C ambient
- Aisle, narrow and wide distributions
- 5 available mounting options

**CERTIFICATIONS**
- CSA Listed to UL 1598
- Damp location
- IP56

**APPLICATIONS**
- Industrial and hazardous locations (HBLH version)
- Gymnasiums
- Warehouses

---

**CRN**

**Wet Location High Bay**

**LUMEN RANGE** | **WATTAGE RANGE** | **LUMENS PER WATT RANGE**
--- | --- | ---
14,000–34,000 | 100–238 | 126–144

**FEATURES**
- Thermally separated electronic and LED heat-sink design
- Standard clear tempered glass or optional frosted polycarbonate lens
- Aluminum, clear or diffuse reflector options
- Optional integrated sensor

**CERTIFICATIONS**
- cULus to UL 1598
- Wet location
- IP65
- DLC® Qualified*

**APPLICATIONS**
- Heavy industrial
- Warehouses
- Gymnasiums

---

**TRIPLE H**

**High Bay / Low Bay**

**LUMEN RANGE** | **WATTAGE RANGE** | **LUMENS PER WATT RANGE**
--- | --- | ---
15,000–60,000 | 162–436 | 111–153

**FEATURES**
- High ambient - rated for 65°C
- High output - up to 60,000lm
- High efficacy - up to 139 lumens per watt
- Modular design with flexible optical choices
- Four extruded acrylic lens options or no lens for maximum efficacy

**CERTIFICATIONS**
- CSA Listed to UL 1598
- Wet location
- DLC® Qualified*

**APPLICATIONS**
- Heavy industrial
- Warehouses
- Gymnasiums
- Airplane hangars

---

**KSL**

**Enclosed and Gasketed Severe Location**

**LUMEN RANGE** | **WATTAGE RANGE** | **LUMENS PER WATT RANGE**
--- | --- | ---
4,500–9,000 | 43–86 | 99–105

**FEATURES**
- Designed for harsh applications
- Three distinct distributions: Type V Square, Type V Rectangle, Narrow
- Modular design provides 6 mounting options

**CERTIFICATIONS**
- CSA Listed to UL 1598
- Wet location

**APPLICATIONS**
- Corrosive and harsh
- Chemical
- Marine
- Food processing

---

**LXEW**
Wide Enclosed and Gasketed High Bay

**FEATURES**
- Available in 2', 4', or 8' lengths
- Serves rugged to severe conditions as well as food service areas

**CERTIFICATIONS**
- CSA listed to UL 1598
- IP65, IP66, IP67
- Wet Listed
- UL Sanitation Certified per NSF Standards
- DLC® Qualified*

**APPLICATIONS**
- Livestock buildings
- Food processing
- Car wash

---

**LXEM**
Enclosed and Gasketed Luminaire

**FEATURES**
- Long life 60,000 hour LEDs at L80 for reduced lumen maintenance
- IP65 and IP67 standard, IP66 when ordered with polyacetal (POM) latches
- Available in 32.4', or 48' lengths
- Serves rugged to severe conditions as well as food service areas

**CERTIFICATIONS**
- CSA listed to UL 1598
- Wet location
- UL Sanitation Certified per NSF Standards
- DLC® Qualified*

**APPLICATIONS**
- Livestock buildings
- Food processing
- Car wash

---

**LXEN**
Narrow Enclosed and Gasketed Luminaire

**FEATURES**
- Available in 4' length
- Narrow housing design for applications with limited space
- IP65 and IP67 standard, IP66 when ordered with polyacetal latches
- Four LED color choices

**CERTIFICATIONS**
- CSA
- IP Rated
- UL 1598
- UL 2108

**APPLICATIONS**
- Livestock buildings
- Food processing
- Car wash

---

**LXEP**
Parking Garage

**FEATURES**
- Wide-angle light for indoor parking garage applications
- IP65, IP66, IP67 models
- Clear or frosted acrylic lens
- Emergency battery pack optional

**CERTIFICATIONS**
- CSA to UL 1598
- IP rated
- DLC® Qualified*

**APPLICATIONS**
- Parking garages

---

*DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org*
### Sanitube Food Service Strip

**Lumen Range (Wattage Range):**
- 3,200–18,000 (32–190)
- 92–100

**Features:**
- Low wattage LED Sanitube ideal for many food processing applications
- Internal optical diffuser for uniform light distribution
- Available in 4’ and 8’ lengths
- One-piece non-metallic housing
- Stainless steel hardware
- NSF Splash Zone rating
- Suspended, ceiling, or wall mount

**Certifications:**
- IP65, IP66
- CSA listed to UL 1598
- Wet location

**Applications:**
- Food processing
- Cold storage
- Commercial kitchen
- Breweries

*DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org*

### Vaportite LED

**Lumen Range (Wattage Range):**
- 1,402–1,940 (27)
- 50–74

**Features:**
- Low-copper alloy die-cast aluminum
- Enclosed and gasketed
- Frosted glass globe
- 5000K
- Multiple mounting configurations

**Certifications:**
- CSA listed to UL 1598
- Wet location

**Applications:**
- Catwalks
- Manufacturing areas
- Refineries

### Food Processing High Bay

**Lumen Range (Wattage Range):**
- 24,000 (220)
- 109

**Features:**
- Sealed LED fixture for food processing facilities
- Smooth exterior with no exposed fasteners
- Cast aluminum construction
- Replaces 400w PSMH one-for-one
- Four lens options

**Certifications:**
- IP66
- CSA listed to UL 1598
- Wet Location
- UL Sanitation Certified per NSF Standards
- DLC® Qualified*

**Applications:**
- Food processing
- Cold storage
- Commercial kitchen
- Breweries

*DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org*

### The Performance High Bay

**Lumen Range (Wattage Range):**
- 14,000–28,000 (103–216)
- 110–141

**Features:**
- Up to a full 65°C with no fold back
- Good side light and up light on the SPC and DLR optics
- 5 lens options
- 4 mounting options
- Optional occupancy sensor

**Certifications:**
- CSA listed to UL 1598
- Wet location
- IP66

**Applications:**
- Heavy industrial
- Warehouse
- Cold storage
- Steel mills
**HBLH**

**Classified High Bay**

<table>
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<th>Lumens Range</th>
<th>Wattage Range</th>
<th>Lumens per Watt Range</th>
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<tbody>
<tr>
<td>10,000–17,000</td>
<td>112–169</td>
<td>91–101</td>
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</table>

**Features**
- CSA listed to UL 1598
- UL844
- Wet location
- UL Sanitation Certified per NSF Standards
- IP66 available
- DLC® Qualified®
- C1D2, Groups A, B, C & D
- High performance LED design
- Specialized thermal management allows from -40˚C up to 55˚C ambient temperature ratings
- 5 available mounting options
- Aisle, narrow, and wide distributions

**Applications**
- Industrial and hazardous locations
- Gymnasiums
- Warehouses

---

**KHL**

**Kemlux III Hazardous Location Fixture**

<table>
<thead>
<tr>
<th>Lumens Range</th>
<th>Wattage Range</th>
<th>Lumens per Watt Range</th>
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</thead>
<tbody>
<tr>
<td>4,500–9,000</td>
<td>43–86</td>
<td>99–105</td>
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</tbody>
</table>

**Features**
- Custom engineered LED optics providing optimally controlled and evenly distributed light
- Three LED count options: 18, 24, 36
- Three distinct distributions: Type V Square, Type V Rectangle, Narrow
- Modular design provides 8 mounting options
- T code: T6

**Certifications**
- CSA listed to UL 1598
- UL1598
- UL 844
- C1D2, Groups A, B, C & D
- DLC® Qualified®

**Applications**
- Chemical
- Petrochemical
- Marine
- Power plants

---

**CLH**

**Classified Location High Bay**

<table>
<thead>
<tr>
<th>Lumens Range</th>
<th>Wattage Range</th>
<th>Lumens per Watt Range</th>
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</thead>
<tbody>
<tr>
<td>24,000</td>
<td>220</td>
<td>109</td>
</tr>
</tbody>
</table>

**Features**
- Sealed LED fixture for hazardous locations
- Smooth exterior with no exposed fasteners
- Multiple acrylic and polycarbonate lens options
- Lens control

**Certifications**
- CSA listed to UL 1598
- Wet location
- IP66

**Applications**
- Manufacturing
- Heavy industrial

---

**HEM**

**Enclosed and Gasketed Luminaire**

<table>
<thead>
<tr>
<th>Lumens Range</th>
<th>Wattage Range</th>
<th>Lumens per Watt Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,850–16,300</td>
<td>47–136</td>
<td>114–123</td>
</tr>
</tbody>
</table>

**Features**
- LED hazardous location enclosed and gasketed
- Available in 4’ or 8’ lengths
- Fiberglass housing with F1 weatherability rating
- Modular design provides 6 mounting options
- T code: T6

**Certifications**
- IP65, IP66, and IP67
- CSA listed to UL 1598
- UL Sanitation (to NSF Standards)
- C1D2, Groups A, B, C & D
- DLC® Qualified®

**Applications**
- Ethanol refineries
- Manufacturing facilities
- Wastewater treatment facilities
- Power generation facilities

*DesignLights Consortium*® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
VTH
Hazardous Location LED Vaportite

<table>
<thead>
<tr>
<th>LUMENS RANGE</th>
<th>WATTAGE</th>
<th>LUMENS PER WATT RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,400-1,940</td>
<td>25</td>
<td>50-78</td>
</tr>
</tbody>
</table>

FEATURES
- Low copper alloy die-cast aluminum
- Multiple mounting configurations
- Frosted glass globe
- -30°C to 40°C
- 5000K

APPLICATIONS
- Catwalks
- Manufacturing facilities
- Refineries
- Hazardous locations

HLEML
Explosion-Proof LED

<table>
<thead>
<tr>
<th>LUMENS</th>
<th>WATTAGE</th>
<th>LUMENS PER WATT</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,000</td>
<td>45</td>
<td>64</td>
</tr>
</tbody>
</table>

FEATURES
- Designed for classified areas
- Specialized thermal management allows from -40°C to 55°C ambient temperature ratings
- 5 available mounting options
- Clear or fluted globe

CERTIFICATIONS
- C1D1, C1D2, Groups C & D
- Class I, Zone 1 & 2, Groups IIB, IIA
- C2D1, C2D2, Groups E, F, & G
- C3D1, C3D2
- NEMA 3, 4, 4X

APPLICATIONS
- Manufacturing plants
- Ammunition facilities
- Refineries
- Tank farms
**EV4R**

Recessed Ceiling Mount Emergency Light

**FEATURES**
- Flame-rated, UV stable thermoplastic housing
- Choice of round or rectangular trim-plate in white or black finish
- 4 LEDs housed within an aluminum heat-sink and adjustable optic assembly
- Individual LEDs are driven at 1 watt each for 88 lumens per LED

**CERTIFICATIONS**
- UL 924 Listed
- Damp location
- NFPA 101
- NFPA 70
- IC Rated

**APPLICATIONS**
- Commercial hallways
- Schools
- Architectural areas

---

**SEMPRA® SE**

Die Cast Exit Sign

**FEATURES**
- AC or Emergency operation with optional Spectron® Self-Test/Self-Diagnostics
- Red or green letters, white or black finish, single or double face
- Accepts 120/277VAC input at 60Hz
- Special Wording option available

**CERTIFICATIONS**
- UL 924 Listed
- Damp location
- NFPA 101
- NFPA 70

**APPLICATIONS**
- Schools
- Hospitals
- Gymnasiums

---

**EVE**

Thermoplastic Exit Sign

**FEATURES**
- AC only or Emergency operation with optional Spectron® Self-Test/Self-Diagnostics
- Red or green letters, white or black finish, single or double face
- Accepts 120/277VAC input at 60Hz
- Special Wording options

**CERTIFICATIONS**
- UL 924 Listed
- Damp location
- NFPA 101
- NFPA 70

**APPLICATIONS**
- Schools
- Offices
- Commercial properties

---

**EVC**

Thermoplastic Combination Exit/Emergency Light

**FEATURES**
- Fully adjustable Integral LED lamp-heads
- Optional Self-Test/Self-Diagnostics
- Red or green letters, white or black finish
- Accepts 120/277VAC input at 60Hz

**CERTIFICATIONS**
- UL 924 Listed
- Damp location
- NFPA 101
- NFPA 70

**APPLICATIONS**
- Schools
- Offices
- Commercial properties
EVHC
Thermoplastic High Lumen Emergency Light

FEATURES
• Fully adjustable lamp-heads
• High lumen output for up to 83’ spacing
• Wall or ceiling mount in black or white finish
• Self-Test/Self-Diagnostics option

CERTIFICATIONS
• UL 924 Listed
• Wet location
• NEMA 4X
• NFPA 70

APPLICATIONS
• Schools
• Offices
• Commercial properties

SEWL
Wet Location/NEMA 4X Die-Cast Exit Sign

FEATURES
• AC or Emergency Operation
• Red or green letters, white or black finish, single or double face
• Spectron® Self-Test/Self-Diagnostic circuitry standard

CERTIFICATIONS
• UL 924 Listed
• Wet location
• UL Type 4X
• IP66 Ingress Protection
• NFPA 70
• NFPA 101
• OSHA Illumination Standards
• C1D2 option (Jan 2020)

APPLICATIONS
• Parking garages
• Gymnasiums
• Apartment complexes
• Prisons

DYNAMO
NEMA 4X / C1D2 / C2D1 Industrial Emergency Light

FEATURES
• Sealed and gasketed thermoplastic housing
• Fully adjustable high output LED lamp heads
• Up to 81’ spacing
• Optional heater for cold temperature applications

CERTIFICATIONS
• UL 924 Listed
• Wet Location Listed
• C1D2 Listed
• NEMA 4X Listed
• UL Sanitation Certified with FP option
• C1D2 and C2D1 options

APPLICATIONS
• Manufacturing plants
• Warehouses
• Rail Terminals
• Tank Farms

EVE4X
Wet Location/NEMA 4X Exit Sign

FEATURES
• UL 924 Listed
• Wet/damp location
• NEMA 4X
• Enclosure and cover is constructed of impact-resistant polycarbonate
• LED based exit sign for wall mount only
• AC or Emergency with optional Self-Test/Self-Diagnostics
• Long-Life Nickel Metal Hydride Battery
• Full recharge within 24 hours

CERTIFICATIONS
• UL 924 Listed
• Wet/damp location
• NEMA 4X

APPLICATIONS
• Corrosive environments
• Hose down locations
• Parking decks
HLEBS-HEXA100
Emergency Lighting System with Exit Accessory

**FEATURES**
- Integral Push-to-Test Station and AC/On indicator
- Only “ON” in loss of normal power
- 23W capacity requiring 20W of load (2 lamp-heads)
- All holes and Hub size are ¾”

**CERTIFICATIONS**
- UL 924 Emergency Listed
- UL 844 Hazardous Location Listed

**APPLICATIONS**
- Manufacturing plants
- Warehouses
- Tank farms

EBB-VEXA400
Emergency Light with Exit Housing Accessory

**FEATURES**
- Self-contained hazardous location
- Pendant, wall or ceiling mounting
- Fully automatic charger with low voltage disconnect
- Remote test station included

**CERTIFICATIONS**
- UL 924 Emergency Listed (Emergency Lighting)
- UL 844 Hazardous Location Listed

**APPLICATIONS**
- Manufacturing plants
- Warehouses
- Refineries
- Tank farms

EBB
Hazardous Location Emergency Light

**FEATURES**
- Self-contained Battery/Charger assy. in the lamp-head
- 60W capacity powers 3 integral 20W MR-16 Halogen lamps for 90 minutes
- Pendant, wall or ceiling mounting
- Includes Remote Test Station
- Lamp-head in globe type with optional EXIT accessory

**CERTIFICATIONS**
- UL 924 Emergency
- UL 844 Hazardous Location
- C1D1, C1D2
- C2D1, C2D2
- C3D1, C3D2

**APPLICATIONS**
- Manufacturing plants
- Warehouses
- Refineries
- Tank farms

HLEBS
Emergency Lighting System

**FEATURES**
- Battery/Charger assy. provides 23W
- Powers 2 each 10W LED lamp-heads for 90 minutes
- Available with Direct Mount or Remote Heads
- Integral Push-to-Test Station and AC/On indicator
- Lamp-heads in spot or globe with over 900 lumens each

**CERTIFICATIONS**
- UL 924 Emergency
- UL 844 Hazardous Location
- C1D1, C1D2
- C2D1, C2D2
- C3D1, C3D2

**APPLICATIONS**
- Manufacturing plants
- Warehouses
- Refineries
- Tank farms
DPL-P & DPL-PM
Exit Sign

Other categories: General Damp, Exits

**FEATURES**
- DPL photoluminescent exit signs do not require AC or electrical power
- UL listed legible viewing distances of 50', 75' and 100'
- DPL-P units constructed of ABS thermoplastic
- DPL-PM units made of a high-density polyethylene (HDPE) with aluminum face and back
- All signs have a 25-year lifecycle

**CERTIFICATIONS**
- UL 924 Listed
- NFPA 101, NFPA 70
- OSHA

**APPLICATIONS**
- External illumination charge can be from natural or artificial light sources
- The signs require a continuous minimum of 5 foot-candles of external illumination at all times of building occupancy to maintain the charge
- Indoor or outdoor use

PG
Wet Location Emergency Light

**FEATURES**
- Four long-life, high-output LEDs
- LEDs configured in redundant pairs
- 90 minutes emergency operation
- No heads to aim, no adjustments to make

**CERTIFICATIONS**
- UL 924 Listed
- Wet Location Listed
- NFPA 101
- NFPA 70

**APPLICATIONS**
- Entrance/exit signs
- Perimeter walkways
- Exterior path of egress
- Parking decks

DYNC
NEMA 4X Industrial Combination Exit/LED Emergency Light

**FEATURES**
- Heavy duty die-cast construction with polycarbonate shields
- Fully adjustable shielded LED lamp heads
- Up to 7' spacing
- Optional heater for cold temperature applications
- Available in C1D1 (January 2020)

**CERTIFICATIONS**
- UL 924 Listed
- NEMA 4, 4X Rated
- UL Sanitation Certified
- CEC-T20 Compliant
- C1D2 option

**APPLICATIONS**
- Wet location or hose down industrial settings
- Food processing
- Chemical plants
- Manufacturing facilities

DYNC
NEMA 4X Industrial Combination Exit/LED Emergency Light

**FEATURES**
- Four long-life, high-output LEDs
- LEDs configured in redundant pairs
- 90 minute emergency operation
- No heads to aim, no adjustments to make

**CERTIFICATIONS**
- UL 924 Listed
- Wet Location Listed
- NFPA 101, NFPA 70
- OSHA

**APPLICATIONS**
- Entrance/exit ways
- Perimeter walkways
- Exterior path of egress
- Parking deck
### PLD Battery Pack

**Features**
- 90 or 120 minute backup
- 10W, 9W and 7W designs
- Constant lumen output
- Universal 120-277V input
- Auto-sensing Vf output

**Certifications**
- UL 924 Listed
- Damp location
- NFPA 101
- NFPA 70
- UL 1315
- CSA C22.2
- OEC Title 20

**Applications**
- Retail
- Offices
- Commercial properties

---

### UFO-LED LED Battery Pack

**Features**
- 25W output capacity
- 90 minutes of full lumen output
- Auto Select 120/277VAC Input/Output
- Compatible with Switched and Unswitched Fixtures
- Remote Test Switch included standard

**Certifications**
- UL 924 Listed
- Damp Location Listed
- NFPA 101
- NFPA 70
- CSA 22.2

**Applications**
- Retail
- Offices
- Commercial properties

---

### LIGHTPOWER™ Single Phase Micro Inverters

**Features**
- 20W-55W output capacity
- Surface, recessed, T-grid mount
- Installed up to 1000' from lighting load
- Full lumen output

**Certifications**
- UL 924 Listed
- UL 2043 (T-grid models)
- NFPA 101
- NFPA 70
- CEC Title 20

**Applications**
- Indoor installation for backing up commercial, industrial, wet location and hazardous location fixtures

---

### LITEGEAR® Single Phase Inverters

**Features**
- 125 and 250 VA output capacity
- Surface, recessed, and T-grid mount
- Installed up to 1000' from lighting load
- Full lumen output

**Certifications**
- UL 924 Listed
- UL 2043 (T-grid models)
- NFPA 101
- NFPA 70
- OEC Title 20

**Applications**
- Indoor installation for backing up commercial, industrial, wet location and hazardous location fixtures
SYNCHRON
Small Single Phase Inverters

**FEATURES**
- 400-2100W output capacity
- Uninterruptable, no-break switching
- Solar-efficient
- Self-Diagnostics
- Multiple output breakers

**APPLICATIONS**
- Indoor installation for backing up commercial, industrial, wet location and hazardous location fixtures

---

LSN
Medium Single Phase Inverters

**FEATURES**
- 1D 17.5kVA/KW output capacity
- Self-Test/Self-Diagnostics complies with life safety requirements
- RS232 Communication
- Seismic qualified options up to 20 output breakers
- Up to 20 output breakers

**APPLICATIONS**
- Indoor installation for backing up commercial, industrial, wet location and hazardous location fixtures

---

TRF
Large Three-Phase Inverter

**FEATURES**
- 10-125kVA output capacity
- Self-Test/Self-Diagnostics
- Intuitive GUI display
- Pre-mounted and wired batteries
- Seismic rating on 65-125kVA; optional on 15-60kVA
- Form C monitoring contacts
- Internal maintenance bypass switch

**APPLICATIONS**
- Indoor installation for backing up commercial, industrial, wet location and hazardous location fixtures

---

CERTIFICATIONS
- UL 924 Listed
- NFPA 101
- NFPA 70
- UL 1770 (alternate runtimes)
- ANSI C62.41/.45
- NFPA 101
- NFPA 70
- IBC 2015 (OSHPD Certified)
HAZARDOUS (CLASSIFIED) LOCATION
INFORMATION AND DEFINITIONS

ENCLOSURE TYPES

<table>
<thead>
<tr>
<th>Enclosure Type</th>
<th>Intended Use</th>
<th>Equivalent IP Code Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Indoor use, limited amounts of failing dirt</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Outdoor use, rain, sleet, wind blown dust, external formation of ice</td>
<td>54</td>
</tr>
<tr>
<td>3H</td>
<td>Outdoor use, rain, sleet, external formation of ice</td>
<td>14</td>
</tr>
<tr>
<td>3S</td>
<td>Outdoor use, wind blown dust and rain, external formation of ice</td>
<td>54</td>
</tr>
<tr>
<td>3R</td>
<td>Outdoor use, rain, sleet, external mechanisms operable when ice laden</td>
<td>14</td>
</tr>
<tr>
<td>4</td>
<td>Indoor or outdoor use, wind blown dust and rain, splash water, hose directed water, external formation of ice</td>
<td>66</td>
</tr>
<tr>
<td>4X</td>
<td>Indoor or outdoor use, wind blown dust and rain, splash water, corrosion, external formation of ice</td>
<td>66</td>
</tr>
<tr>
<td>5</td>
<td>Indoor use, settling airborne dust, falling dirt, noncorrosive liquids</td>
<td>52</td>
</tr>
<tr>
<td>6</td>
<td>Indoor or outdoor use, hose directed water, temporary submersion, external formation of ice</td>
<td>67</td>
</tr>
<tr>
<td>6P</td>
<td>Indoor or outdoor use, hose directed water, prolonged submersion, external formation of ice</td>
<td>67</td>
</tr>
<tr>
<td>7</td>
<td>Indoor use, Class I, Division 1, Groups A, B, C, and D hazardous locations, air-break equipment</td>
<td>67</td>
</tr>
<tr>
<td>8</td>
<td>Indoor use, Class I, Division 1, Groups A, B, C, and D hazardous locations, oil-immersed equipment</td>
<td>67</td>
</tr>
<tr>
<td>9</td>
<td>Indoor use, Class II, Division 1, Groups E, F, and G hazardous locations, air-break equipment</td>
<td>67</td>
</tr>
<tr>
<td>10</td>
<td>Mining applications</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Indoor use, circulating dust, falling dirt, dripping</td>
<td>52</td>
</tr>
<tr>
<td>12k</td>
<td>Indoor use, circulating dust, falling dirt, dripping noncorrosive liquids, provided with knockouts</td>
<td>52</td>
</tr>
<tr>
<td>13</td>
<td>Indoor use, lint, dust, spraying of water, oil, and non corrosive content</td>
<td>54</td>
</tr>
</tbody>
</table>

INGRESS PROTECTION (IP) CODES

<table>
<thead>
<tr>
<th>First Number</th>
<th>Second Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>No Protection</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Objects Greater than 50mm</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Objects Greater than 12mm</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Objects Greater than 2.5mm</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Objects Greater than 1mm</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Dust Protected</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Dust Tight</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>Effects of Immersion</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>Indefinite Immersion</td>
</tr>
<tr>
<td>9k</td>
<td>9k</td>
<td>Close high jets and high temperatures</td>
</tr>
</tbody>
</table>

NEMA AND ANSI/IES FLOODLIGHT BEAM DESCRIPTIONS

Asymmetrical beam floodlights may be designated by a combination of horizontal and vertical beam spreads in that order; a floodlight with a horizontal beam spread of 75 degrees (Type 5) and a vertical beam of 35 degrees (Type 6) would be designated as Type 5x6 floodlight.

<table>
<thead>
<tr>
<th>Beam Spread Degrees</th>
<th>NEMA Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 up to 18</td>
<td>1</td>
</tr>
<tr>
<td>18 up to 26</td>
<td>2</td>
</tr>
<tr>
<td>26 up to 46</td>
<td>3</td>
</tr>
<tr>
<td>46 up to 70</td>
<td>4</td>
</tr>
<tr>
<td>70 up to 100</td>
<td>5</td>
</tr>
<tr>
<td>100 up to 130</td>
<td>6</td>
</tr>
<tr>
<td>130 and up</td>
<td>7</td>
</tr>
</tbody>
</table>
HAZARDOUS (CLASSIFIED) LOCATION INFORMATION AND DEFINITIONS

### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I, Gases</td>
<td>Areas where inflammable gases or vapors may be present in sufficient quantities to produce explosive or flammable mixture.</td>
</tr>
<tr>
<td>Class II, Dust</td>
<td>Areas where combustible dust are present.</td>
</tr>
<tr>
<td>Class III, Fibers</td>
<td>Areas where ignitable fibers and flyings are present in sufficient quantities to produce ignitable mixtures.</td>
</tr>
</tbody>
</table>

### Divisions

<table>
<thead>
<tr>
<th>Division</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division 1, Always Present</td>
<td>Areas where the hazardous condition is normally present either continuously or periodically.</td>
</tr>
<tr>
<td>Division 2, Not Normally Present</td>
<td>Areas where the hazardous condition is present due to accidental rupture, breakage or unusual faulty operation of a closed container or system.</td>
</tr>
</tbody>
</table>

### Groups

<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A</td>
<td>Acetylene</td>
</tr>
<tr>
<td>Group B</td>
<td>Hydrogen</td>
</tr>
<tr>
<td>Group C</td>
<td>Ether</td>
</tr>
<tr>
<td>Group D</td>
<td>Chlordane</td>
</tr>
<tr>
<td>Group E</td>
<td>Metal Dust</td>
</tr>
<tr>
<td>Group F</td>
<td>Coal Dust</td>
</tr>
<tr>
<td>Group G</td>
<td>Grain Dust</td>
</tr>
</tbody>
</table>

### IEC Hazardous Classifications

<table>
<thead>
<tr>
<th>Hazardous Material</th>
<th>NEC U.S. Standards</th>
<th>IEC/EN Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas or Vapor</td>
<td>Class I, Division 1</td>
<td>Zone D or Zone E</td>
</tr>
<tr>
<td>Dust</td>
<td>Class I, Division 1</td>
<td>Zone D or Zone E</td>
</tr>
<tr>
<td>Fibers or Flyings</td>
<td>Class I, Division 1</td>
<td>Zone D or Zone E</td>
</tr>
</tbody>
</table>

### Temperature (T-CODE) Markings

<table>
<thead>
<tr>
<th>Maximum Operating Temperatures</th>
<th>Temperature (T) Code or Identification Number*</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>450 F 840 T1</td>
</tr>
<tr>
<td>260</td>
<td>572 T2</td>
</tr>
<tr>
<td>290</td>
<td>650 T1</td>
</tr>
<tr>
<td>260</td>
<td>700 T1</td>
</tr>
<tr>
<td>250</td>
<td>444 T1</td>
</tr>
<tr>
<td>215</td>
<td>419 T2</td>
</tr>
<tr>
<td>200</td>
<td>362 T3</td>
</tr>
<tr>
<td>180</td>
<td>266 T5</td>
</tr>
<tr>
<td>160</td>
<td>320 T5</td>
</tr>
<tr>
<td>140</td>
<td>320 T5</td>
</tr>
<tr>
<td>135</td>
<td>275 T4</td>
</tr>
<tr>
<td>120</td>
<td>248 T4</td>
</tr>
<tr>
<td>100</td>
<td>214 T4</td>
</tr>
<tr>
<td>85</td>
<td>165 T5</td>
</tr>
</tbody>
</table>

* Based on 40°C (104°F) ambient

### IEC/NEC Comparisons

<table>
<thead>
<tr>
<th>Hazardous</th>
<th>NEC</th>
<th>IEC/EN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas or Vapor</td>
<td>C1D2</td>
<td>CLH</td>
</tr>
<tr>
<td>Dust</td>
<td>C1D2</td>
<td>EVE4X</td>
</tr>
<tr>
<td>Fibers or Flyings</td>
<td>C1D2</td>
<td>SEWL</td>
</tr>
</tbody>
</table>

### High Bay/High Temperature

- HBLH
- HEM
- KHL
- VTH
- MTH
- DYN
- CLH
- SEWL-C1D2*
- DYN-C1D2*

### Floodlights

- HBLH
- HEM
- KHL
- VTH
- MTH
- DYN
- CLH
- SEWL-C1D2*
- DYN-C1D2*

### NFS, IP, NEMA (Wash Down)

- SNL
- LAXEM
- LAXEN
- LAXEW
- FPH
- SEWL
- EVE4X
- DYN
- DYN-C1D2*
- SEWL
- EVE4X
- DYN
- DYN-C1D2*

### Life Safety

- SNL
- LAXEM
- LAXEN
- LAXEW
- FPH
- SEWL
- EVE4X
- DYN
- DYN-C1D2*

### Inverters

- Synchron
- LSN
- TRF
- DYN

### C2D1 (Hazardous)

- Synchron
- LSN
- TRF
- DYN

* Available in January 2020

Note: Class III locations (fibers and flyings) are covered in Zone 10, 21 + 22 areas.