LED Lighting for Extreme Conditions

Because Extremely Cold Environments Can Be an Everyday Reality

Regardless of your geographic location, winter can expose your facility to a variety of adverse weather extremes. In winter, heavy snow, freezing temperatures, ice and wind can create conditions where lighting reliability is especially critical to ensuring a safe work environment – especially when performing maintenance on luminaries is just not an option.

Emerson understands that in cold temperature environments your facility requires luminaires specifically designed for reliability and durability in frigid temperatures. Our Appleton LED Luminaires are instant on to full brightness and cold start capable at -40 °C (-40 °F). When arctic conditions cause temperatures to drop to as low as -55 °C (-67 °F), we offer several models certified for these extreme cold climates. For proper illumination in extreme temperature conditions, you need a lighting manufacturer who engineers ruggedly reliable and durable LED luminaires that ensure optimal light dispersion. From area to task, high bay to floodlight, our Appleton LED luminaires maximize usable light while providing unparalleled reliability, durability and energy efficiency in the toughest environments.

Appleton LED Luminaires Designed for Your Toughest Environments

Safe, Versatile, Ruggedly Reliable Solution, Even in Extreme Environments

- Instant on and cold-start capable as low as –55 °C (-67 °F), with no degradation of lumen output
- Multiple cable retention points for added safety
- Captive hardware prevents equipment damage and installer's frustration

Extensive Certifications and Environmental Ratings

- Industrial/Ordinary (Unclassified) Location
- Hazardous (Classified) Location (Class, Division, Group)
- Wet Locations, Marine Outside Type (Salt Water), American Bureau of Shipping (ABS)
- NEMA Enclosure Types (Type 3R, 4, 4X)
- Ingress Protection up to IP67
- IDA Dark Sky Approved Models
- Up to 10G Vibration

Environmentally Sound, Lower Energy Usage, Efficient Design

- No mercury content, no UV or IR, and a much smaller carbon footprint
- Energy efficient saving up to 80% of energy costs compared to legacy sources
- 60,000+ hours between maintenance

Superior Quality of Light for Safer Working Conditions

- Diverse Lighting Application Types (Task/Area, Floodlight, Low/High Bay)
- Light Pattern/Optics (IESNA Lateral Light Distribution Classification Type I, III, V)
- NEMA Type Distribution Patterns (NEMA 3x3, 5x5, 7x6, 7x7)

APPLETON™

For product information:
www.masteringled.com/smartled
1.800.621.1506

EMERSON™

Emerson offers the below Appleton LED Luminaire Product Series with optional cold start capabilities, which are identified with a special character in the part number logic. These product series models are NEC, CEC, ATEX and IECEx Certified and warrantied for either -50 to +65 °C (-58 to +149 °F) or -55 to +65 °C (-67 to +149 °F) ambient temperature environments. They are available in either hazardous or industrial (ordinary) location models. Refer to product series catalog pages for more detailed product information (features, specifications and certifications).

Product ①	Classification	Application	Operating Temperature	Lumen Output	Equivalency (HID)	Wattage	Efficacy (lm/W)	Voltage	CCT
Mercmaster™ LED Low Profile Series Luminaires | Industrial Mercmaster LED Low Profile Series Luminaires									
	Hazardous, Ordinary	Area/Task, Low Bay, Emergency	-50 to +65 °C (-58 to +149 °F)	2,800–7,500	70W–250W	28W–51W	Up to 146	24-48 Vdc; 100-277 Vac; 125-300 Vdc; 347-480 Vac; 0-10 V, Dimmable	5000K, 4000K, 3000K, 1800K, Amber
HB LED Multilens Bulkhead | Industrial HB LED Multilens Bulkhead									
	Hazardous, Ordinary	Bulkhead, Wall Mount, Surface Mount	-50 to +65 °C (-58 to +149 °F)	2,500–6,800	70W–250W	31W–51W	Up to 135	24-48 Vdc; 100-277 Vac; 125-300 Vdc; 0-10 V, Dimmable	5000K, 4000K, 3000K, 1800K, Amber
Areamaster™ Generation 2 and High Lumen LED Series Luminaires | Industrial Areamaster Generation 2 and High Lumen LED Series Luminaires									
	Hazardous, Ordinary	Flood	-55 to +65 °C (-67 to +149 °F)	9,500–38,000	175W–1500W	73W–317W	Up to 141	120–277 Vac; 125–300 Vdc; 347–480 Vac; 0-10 V, Dimmable	5000K, 4000K, 3000K, 1800K, Amber
Baymaster™ and High Lumen LED Series Luminaires | Industrial Baymaster and High Lumen LED Series Luminaires									
	Hazardous, Ordinary	High Bay	-55 to +65 °C (-67 to +149 °F)	9,500–38,000	175W–1500W	73W–317W	Up to 141	120–277 Vac; 125–300 Vdc; 347–480 Vac; 0-10 V, Dimmable	5000K, 4000K, 3000K, 1800K, Amber

① *Refer to product Series catalog pages for detailed product specifications and certification information; available on www.masteringled.com.*

APPLETON

United States: 1.800.621.1506 | Asia/Pacific: + 65.6556.1100 | Australia: + 61.3.9721.0387
Canada: + 1.888.765.2226 | China: + 86.21.3338.7000 | Europe: + 33.3.22.54.13.90
Mexico/Latin America: + 52.55.5809.5049 | Middle East/Africa/India: + 971.4.811.8100
www.masteringled.com/smartled

EMERSON