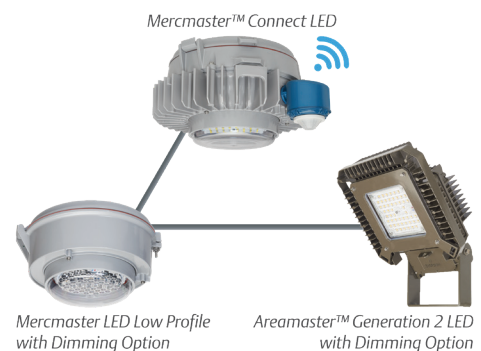


# Smart Lighting Solutions for Hazardous and Industrial Locations

## Appleton™ Group Lighting Controls by Emerson

Improving sustainability is an increasing focus area for many companies looking to reduce the carbon impact of their operations on the environment. Transitioning to LED lighting is the first step in driving sustainability improvements through large energy reductions. Implementing smart lighting solutions is the next step.

Appleton Group Lighting Controls by Emerson provide Plant Managers and Sustainability Officers with the ability to monitor and report on these efficiency gains, while driving further energy savings through easy-to-use lighting controls such as motion sensing, daylight harvesting, or scheduling. Emerson's smart lighting solution creates a new way forward for sustainability through their WirelessHART™ Leadership and Plantweb Insight™ platform. The Appleton Connected LED Luminaire is designed to illuminate hazardous and harsh industrial locations with integrated motion and illuminance sensors. When paired with Emerson's Plantweb Insight Connected Lighting Application, operators can enable map based commissioning, monitor health and energy usage, and review sustainability metrics around CO<sub>2</sub> emission savings.



## Appleton LED Luminaires Designed to Optimize Lighting Operations

### What is Group Lighting Controls?



- Allows the control of multiple luminaires over a distance of 60 meters (200 feet) with Appleton Connected LED Luminaire integrated dimming controller wired to the dimming leads of up to 10 applicable LED luminaires
- Appleton Connected LED Luminaire sensors will determine its lumen output intensity percentage. That same percentage lumen level will be sent over the 0-10 V dimming ports to each dimmable LED luminaire

### What are the Benefits of Group Lighting Controls?



- Up to 10 Appleton dimmable LED luminaires can be connected to and controlled by an Appleton Connected LED Luminaire enabling the advanced capabilities of the Connected Luminaire to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 times period per day) with the group of lights
- WirelessHART based connected lighting solution strengthens the network
- Extend luminaire life by turning on the luminaires only when needed

### What are the Benefits of the Plantweb Insight Connected Lighting Application?



- If used with the Plantweb Insight Connected Lighting Application, and a WirelessHart network/gateway, reporting on energy usage, carbon reduction, maintenance planning, and controls are available through the App
  - Map based commissioning of Motion Sensing, Daylight Harvesting and Scheduling
  - Automated Energy and Environmental Reports
  - Maintenance Alerts
  - Optional for Group Lighting Control

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For product information:  
[www.masteringled.com/smartled](http://www.masteringled.com/smartled)  
1.800.621.1506

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## Smart Lighting Solutions for Hazardous and Industrial Locations

Facilities can reduce energy consumption and maintenance needs while enhancing safety for harsh industrial and hazardous locations with the Smart Lighting Solutions by Emerson. Plant operators can now control their facility's lighting. When Appleton dimmable LED Luminaires are connected to an Appleton Connected LED Luminaire, smart features – scheduling, daylight harvesting, motion sensing – are extended to the dimmable fixtures allowing them to operate as a group. Refer to product series catalog pages for more detailed product information, including global hazardous certifications and environmental ratings; available on [www.masteringled.com/smartled](http://www.masteringled.com/smartled).

| Product ①  | Application                               | Lumen Output                    | Equivalency              | Wattage   | Efficacy (lm/W) | Voltage  | CCT   |
|--|---|---------------------------------|--------------------------|-----------|-----------------|--|---|
| <b>Mercmaster™ Connect LED Luminaires with WirelessHART™   Industrial Mercmaster Connect LED Luminaires with WirelessHART ②</b>  |   |                                 |                          |           |                 |  |   |
|   | Area/Task                                 | 5,500–17,500<br>Dimmable Output | 100W–600W HID            | 46W–145W  | Up to 149       | 120–277 Vac;<br>125–300 Vdc;   | 5000K,<br>4000K,<br>3000K                     |
| <b>Mercmaster LED Low Profile Luminaires   Industrial Mercmaster LED Low Profile Luminaires</b>                                  |   |                                 |                          |           |                 |  |   |
|   | Area/Task,<br>Low Bay,<br>Emergency ③     | 2,800–7,500                     | 70W–250W HID             | 28W–51W   | Up to 146       | 24-48 Vdc;<br>100-277 Vac;<br>125-300 Vdc;<br>347-480 Vac;<br>0-10 V, Dimmable | 5000K,<br>4000K,<br>3000K,<br>1800K,<br>Amber |
| <b>HB LED Multilens Bulkhead   Industrial HB LED Multilens Bulkhead</b>  |   |                                 |                          |           |                 |  |   |
|   | Bulkhead,<br>Wall Mount,<br>Surface Mount | 3,500–7,500                     | 70W–250W HID             | 31W–51W   | Up to 133       | 24-48 Vdc;<br>100-277 Vac;<br>125-300 Vdc;<br>0-10 V, Dimmable                 | 5000K,<br>4000K,<br>3000K,<br>1800K,<br>Amber |
| <b>Areamaster™ LED Generation 2 and High Lumen Luminaires   Industrial Areamaster Generation 2 LED and High Lumen Luminaires</b> |   |                                 |                          |           |                 |  |   |
|   | Flood                                     | 9,500–38,000                    | 175W–1500W HID           | 73W–317W  | Up to 141       | 120–277 Vac;<br>125–300 Vdc;<br>347–480 Vac;<br>0-10 V, Dimmable               | 5000K,<br>4000K,<br>3000K,<br>1800K,<br>Amber |
| <b>Baymaster™ LED and High Lumen Luminaires   Industrial Baymaster LED and High Lumen Luminaires</b>                             |   |                                 |                          |           |                 |  |   |
|   | High Bay                                  | 9,500–38,000                    | 175W–1500W HID           | 73W–317W  | Up to 141       | 120–277 Vac;<br>125–300 Vdc;<br>347–480 Vac;<br>0-10 V, Dimmable               | 5000K,<br>4000K,<br>3000K,<br>1800K,<br>Amber |
| <b>IHC Series LED Luminaires</b>   |   |                                 |                          |           |                 |  |   |
|   | High Bay,<br>Flood                        | 50,000–90,000                   | 1500W HID<br>and greater | 360W–640W | Up to 146       | 120–277 Vac;<br>125–300 Vdc;<br>277–480 Vac;<br>0-10 V, Dimmable               | 5000K,<br>4000K,<br>3000K                     |

① Refer to product series catalog pages for more detailed product information, including global hazardous certifications and environmental ratings; available on [www.masteringled.com](http://www.masteringled.com).

② Use of the WirelessHART Gateway and Plantweb Insight are optional.

③ Refer to product series catalog pages for Emergency Model specifications.

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