

Tough as Nails Facility-Wide Lighting Solutions with Appleton™ Industrial LEDs

RESULTS

- Sourcing made simple with a family of LED solutions for an entire facility and a variety of applications.
- Rugged luminaires offer high temperature durability, perfect for hot and corrosive environments.
- Easily swapped lenses and globes keep maintenance costs low while sustaining maximum light output.
- Superior optics deliver same footcandles with a more uniform light spread at a lower lumen level.



IHC LED Luminaires (above) and Industrial Rigmaster™ Linear LED Luminaires (below)

APPLICATION

Steel Mill

CHALLENGE

Due to hot, dusty, dirty, indoor and outdoor environments, steel mills require multiple types of luminaires for different applications: linear for under racks and on processing units, task lights for closeup operators on machinery, floodlights for large open area lighting above cooling racks, and high bays for tall ceilings in the mills. Across the facility, luminaires are up against extreme heat sometimes reaching beyond +60 °C (+140 °F). Such a demanding environment can result in frequent product swap outs, increased maintenance and costs, as well as safety concerns for maintenance engineers as a lift or ladder is required to address the issue.

SOLUTION

Thanks to a strong partnership with distribution, Emerson met with a steel mill maintenance team and presented our complete Appleton LED portfolio. Our breadth of products are available with the same footcandles as their installed lighting but provide a more uniform light spread, meaning fewer luminaires were needed. Decision makers elected to install Industrial Rigmaster™ Linear LEDs on I-beams supporting new micro alloy processing units, as its slim, compact design keeps headways clear while illuminating walkways and equipment. Industrial Mercmaster™ Low Profile LEDs were installed in task areas near the furnace auxiliary equipment and shearing machines to provide equipment operators with ample lighting. Industrial Areamaster™ LED floodlights were installed on the walls above cooling beds, providing ease of maintenance access and lower safety risks when compared to the previous overhead installation. For the high ceilings in the medium bar mill, the IHC LED was an optimal solution as it offers high lumens to light the floor and has high ambient temperature ratings. With the Appleton LED portfolio Emerson was able to supply the steel mill with a facility wide LED solution, providing workers with comfortable lighting that can stand up to these demanding environments.



Emerson Automation Solutions
9377 West Higgins Road
Rosemont, IL 60018
+1 800 621 1506

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