

## Customer

A manufacturer of industrial machinery

## Customer Requirement

Illumination of enclosures housing the closing unit on rubber injection mold presses

## Banner Solution

WLC90 heavy duty LED lights

## Why Banner?

**High Temperature Operation** – Operates up to 70° C and automatically dims the LEDs to a safe level at extreme temperatures

**Protected Illumination** – Nickel plated aluminum housing and borosilicate glass window protects against hot rubber residue

## Customer Benefit

**Cost Savings** – Durable LED lights provide over 50,000 hours of illumination, minimizing replacement and maintenance expenses



WLC90 heavy duty LED light

## WLC90 Work Light Features

- Oil, chemical and water resistant with IP67, IP68g, and IP69K ratings
- Operating range of -40° to +70° C with light output decreasing above +50° C
- Three lens options for diverse applications
- Three discrete intensity level settings
- Pan-and-tilt brackets for versatile mounting to direct the light in any direction

## Learn More

Visit [www.bannerengineering.com](http://www.bannerengineering.com) for product information and to locate a distributor

- [WLC90 heavy duty LED light overview](#)

## Heavy Duty LED Light Resists Hot Rubber & High Temperatures to Illuminate Enclosure



WLC90 heavy duty LED light withstands high temperatures and other hazards to illuminate an enclosure on rubber injection mold machinery

## Background

Manufacturers of custom molded rubber products serve a diverse range of customers across many industries. Molding processes, materials and equipment vary based on the product requirements and production needs of each customer. A common manufacturing process known as rubber injection molding combines heat and pressure to transform rubber billets into usable parts and components.

## Challenges

A producer of molded rubber products asked their equipment supplier to illuminate the enclosures on their rubber injection mold presses. These machines operate at very high temperatures to mold and cure rubber into usable products. During production, heated rubber may spill over into the work area of the presses. Additionally, fumes generated by the hot rubber can leave a heavy residue on equipment surfaces. These challenges were prohibitive to most lighting solutions.

## Solution

Banner's heavy duty WLC90 was the only lighting solution that met the application requirements. These high performance LED lights provide an intense cool white light that distributes evenly throughout the enclosures. Designed to operate reliably across a broad range of temperatures, WLC90 lights feature an internal monitoring circuit that dims the LEDs to a safe level in extreme temperatures. A sealed nickel plated aluminum housing and optional borosilicate glass window protects the LEDs from hot rubber and other hazards as well as from high pressure washdown.

The compact, low-profile design of the WLC90 LED lights made them easy to integrate into the enclosures without interfering with machine operation. Banner's lens and mounting options, including magnetic and pan-tilt brackets and rear or side connectors provided tremendous flexibility during installation. With a lifespan of over 50,000 hours, the WLC90 LED lights will provide many years of maintenance-free illumination inside the enclosures of the rubber injection mold presses.