

# Curing Adhesive Between Wire and Metal with Model 4085 Infrared Spot Heaters

## Application

A manufacturer of light bulbs curing adhesive to set the electrical wires in the metal base of incandescent light bulbs.

## Problem

**Slow Curing Time** - The existing convection heating tunnel did not consistently result in the adhesive being cured by the time the light bulbs were packaged.

**Excessive Scrap** - Using the convection heating tunnel, the manufacturer was experiencing a 12 percent scrap rate.

**New Bulb Handling System** - The installation of a new handling system for the light bulbs incorporated a turntable and did not physically work well with the structure of the existing convection heating tunnel.

## Solution

**Heat** - Two Model 4085 Infrared Spot Heaters were installed on the new bulb handling system to cure the adhesive.

## Benefits

**Faster Curing Time** - The Infrared Spot Heaters consistently resulted in the adhesive being cured by the time the light bulbs were packaged.

**Reduced Scrap** - The consistent curing of the adhesive reduced the manufacturer's scrap rate to less than two percent.

**Cost Effective** - Installing the Infrared Spot Heaters was a cost-effective way for the manufacturer to replace the inefficient convection heating tunnel.

**Regained Floor Space** - The manufacturer regained the 35 feet (10.7 meters) of floor space previously consumed by the convection heating tunnel.