

# Lamp, Sleeve & End Caps

## INSTALLATION

With lamp and sleeve combinations, lamps must be inserted into sleeve and end caps fitted on each end. Pin contact is reduced due to thickness of end cap. Added length does not permit the lamp to be secured properly in fixture. Usually takes two people to install.

## WASHING TIME

Air space between lamp & sleeve is an ideal environment for dust and oil build-up. Sleeves and end caps have to be washed inside and out, and then reassembled.

## LAMP LIFE

Air space between lamp & sleeve allows for heat build-up, which often results in premature burnout and as much as 30% loss of lamp life.

## LIGHT OUTPUT

Yellow film can develop between the lamp & sleeve due to dust & oils, resulting in severe reduction of light output.

## SAFETY

When a conventional, unprotected lamp breaks, there is always danger of broken glass escaping from the sleeve, especially during installation and removal operations. An OSHA Information Bulletin headline (July 1997) states, "Potential Fire with Fluorescent Lamps Within Plastic Tubes". "... if lamp sleeve and end caps are not properly installed, heat can build-up, the end caps can melt, causing a fire."

## INSTALLATION

No sleeves and end caps. Each lamp is coated with our clear, tough plastic and is ready for immediate installation; you never touch bare, unprotected glass. Even an 8-foot lamp can be easily and safely installed by just one person.

## WASHING TIME

A Shat-R-Shield lamp can be totally immersed in a cleaning tank, rinsed, dried and quickly put back into operation.

## LAMP LIFE

Has a skin-tight safety coating from end to end. There's no air space -- no heat build-up -- no premature burnout.

## LIGHT OUTPUT

Light output reduced less than 1%. Bulb stays as bright and clear as the day you installed it.

## SAFETY

If a Shat-R-Shield lamp breaks, virtually all glass, mercury and phosphors remain safely inside the tough, skin-tight coating. Employees, customers, product and work sites are protected from the risks of broken glass and other lamp contaminants. Time and money are not wasted on clean-up -- production is not shutdown or even interrupted.

SHAT-R-SHIELD IS AVAILABLE THROUGH:

USDA Approved, Meets FDA, OSHA, CFIA (Canadian Food Inspection Agency) and Mexican Department of Agriculture, Livestock and Rural Development Regulations

CERTIFIED