



# Light Cure

## Light Sources and Power Supplies

Our light sources and power supplies provide high intensity ultraviolet light for curing light cure adhesives and coatings. These units are designed to be integrated into a Loctite® brand conveyor system, or used when the end user provides the conveyor and shielding requirements. Selection of a Loctite® brand light source and power supply is based on the bulb type, electrical requirements, and the desired part movement.

For proper eye protection, use Loctite® brand ultraviolet safety glasses, Item # 97210

**Fusion 208V Lamp Assembly and Power Supply**

**Fusion 240V Lamp Assembly and Power Supply**

**Loctite® High Intensity UV Source**

			
<b>Item #</b>	98004	98005	980160
<b>Useful Cure Area</b>	Set-Up Dependent	Set-Up Dependent	Set-Up Dependent
<b>Lamp Type</b>	Electrodeless Fusion H	Electrodeless Fusion H	Medium Pressure Mercury Arc
<b>Output Intensity</b>	High	High	High
<b>Lamp Power</b>	1,800 W	1,800 W	1,500 W
<b>Optimized Spectral Output Range</b>	UVA, B, C	UVA, B, C	UVA, B, C
<b>Optional Bulb Types</b>	D, V, H	D, V, H	-

# Fusion Lamp Assembly and Power Supply, Items 98004, 98005

The Fusion Lamp Assembly is a 6 inch electrodeless lamp, which comes equipped with an "H" bulb. The light source is compatible with "D", "V", "H", and "H+" bulbs to tailor the spectral output of the light to the application. Selection of the 98004 or 98005 is based on the electrical capabilities available to the end user. The Fusion Lamp Assembly is typically used with the Loctite® ZETA® 7415 UV Benchtop Conveyor.

## Features

- Designed for use with the Loctite® ZETA® 7415 UV Benchtop Conveyor
- Electrodeless bulb technology provides high intensity output
- The system is shipped standard with an "H" bulb, but will accept "D", "V", or "H+" bulbs to fine tune lamp spectral output
- 5,000 hours of expected UV bulb life of the "H" bulb, with proper handling and maintenance
- High UV output with low IR output results in less heat to the substrate

## Theory of Operation

An operator will assemble parts with a light curing adhesive or coating and manually or automatically place the part under the lamp for cure. Shielding is obtained through the use of this assembly with a Loctite® ZETA® 7415 UV Benchtop Conveyor. If used elsewhere, shielding must be provided by the customer.

## Technical Specifications

98004:	208 VAC single phase, 18 amps, 50/60 Hz
98005:	240 VAC single phase, 18 amps, 50/60 Hz
Lamp:	Fusion H Bulb - 300 WPI
Size:	8" H x 19.9" W x 23" D

## List of Parts Supplied

- (1) Fusion Lamp Assembly and Power Supply
- (1) Manual

## Options

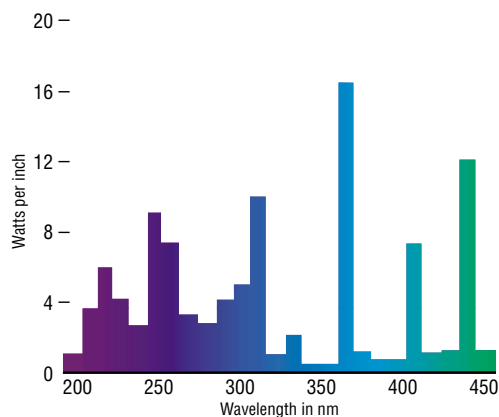
98086	Loctite® ZETA® 7011-A Dosimeter-Radiometer
983471	Fusion V Bulb - 300 WPI
983469	Fusion D Bulb - 300 WPI

## Replacement Bulbs

983470	Fusion H Bulb - 300 WPI
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Spectral Output of "H" Bulb



## ADDITIONAL OFFERINGS

See Pages 87-88 for Loctite® UV Meters, to measure spectral output.

# Loctite® High Intensity Ultraviolet Sources, Items 980160, 982440

The Loctite® High Intensity Ultraviolet Sources are designed for a wide range of applications using ultraviolet curing adhesives and coatings. With the proper shielding, cooling, and venting (not included with this product) this light source can be integrated into both prototype and production applications. This unit is designed specifically for the user who wants to integrate their own shielding, cooling, venting, and mounting systems into a production line. A 220 VAC, 50 Hz unit is available as 98440.

### Features

- Contains a 5 inch, 300 Watts/inch medium pressure mercury vapor bulb
- Variable bulb wattage: 200 or 300 Watts/ inch
- Designed to emit in the UVA and UVB regions
- Typical curing area of 4.5" x 6"
- 1,000 hours of expected UV bulb life with proper handling and maintenance

### Theory of Operation

To assemble a component with a UV curing adhesive or coating, place and remove the part manually or automatically under the light source. The customer will provide their own mounting, shielding, cooling, and venting for this unit.

### Technical Specifications

Power Supply:	980160 - 115 VAC, 60 Hz, 15 Amp 982440 - 220 VAC, 50 Hz, 7.5 Amp
Power Consumption:	2,000 Watts
Lamp:	1,500 Watt Medium Pressure Mercury Arc Lamp
Lamp Unit Size:	15.18" L x 8.5" W x 6.5" H
Power Supply Size:	18" L x 15" W x 10" H
Lamp Unit Weight:	9 lbs.
Power Supply Weight:	45 lbs.

### List of Loctite® Brand Parts Supplied

- (1) High Intensity UV Source
- (1) Ultraviolet Protection Glasses
- (1) Manual

### Options

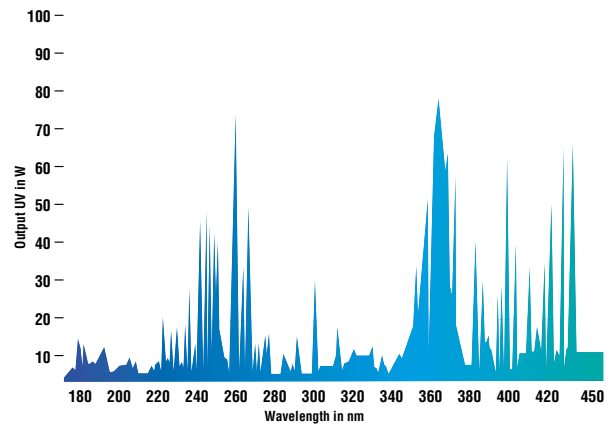
98086	Loctite® ZETA® 7011-A Dosimeter-Radiometer
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### Replacement Bulb

980161	Replacement 5" UV Bulb - 300 WPI
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Spectral Output of a Medium Pressure Mercury Arc Bulb



For Equipment and Adhesive Troubleshooting  
Go To "Technical Resources" and Select  
"Product Troubleshooting" at:

