

# METALARC® SUPERSAVER®

Energy Saving Replacement Metal Halide Lamps



Constructed with an enhanced arc tube for peak performance, SYLVANIA METALARC and METALARC PRO-TECH® SUPERSAVER lamps are designed as energy saving replacement metal halide lamps. No ballast change is required.

The result of this technology is an energy savings of approximately \$144.00 over the life of the lamp for the 920 watt SUPERSAVER, \$80.00 for the 360 watt SUPERSAVER lamp and \$25.00 for the 150 watt SUPERSAVER.\*

## 150 Watt SUPERSAVER

- Saves 25 watts of power and \$25.00 of energy compared to a 175 watt metal halide lamp\*
- Direct retro-fit for 175 watt metal halide lamps; operates on a standard 175 watt M57 CWA ballast

## 360 Watt SUPERSAVER

- Saves 40 watts of power and \$80.00 of energy compared to a 400 watt metal halide lamp\*
- Direct retro-fit for 400 watt metal halide lamps; operates on a standard 400 watt M59 CWA ballast
- Available in METALARC PRO-TECH lamp design for use in open fixture applications
- Available clear or coated

## 920 Watt SUPERSAVER

- Saves 80 watts of power and \$144 of energy compared to a 1000 watt metal halide lamp\*
- Direct retro-fit for 1000 watt metal halide lamps; operates on a standard 1000 watt M47 CWA ballast

## Product Availability

Lamp	Wattage	Pro-Tech	Finish
M150/SS	150	No	Clear
MS360/SS	360	No	Clear or Coated
MSP360/SS	360	Yes	Clear or Coated
M920/SS	920	No	Clear

\*Savings based on base-up orientation, \$0.10 / kWh and 20,000 hours average rated life (360W) or 10,000 hours average rated life (150W)

## Lamp Comparison

Lamp Type	Initial Lumens	Mean Lumens	Watts	Average Rated Life (hours)**
MS360/SS/BU-HOR	36,000	23,500	360	20,000
M400/U	36,000	23,500	400	20,000
M150/SS/U/BT28	13,000	7500	150	10,000
M175/U	14,400	9300	175	10,000
M920/SS/U/BT56	95,000	76,000	920	18,000
M1000/U	110,000	86,000	1000	18,000

\*\*Base up orientation.

## Application Information

Applications	Application Notes	Ballast Information								
Ambient lighting for industrial, commercial and retail installations	1. Operating orientation: M150/SS is designed for universal operation. MS360/SS/BT37 is base-up to horizontal, MSP360/SS and MS360/SS/ED28 are for base-up applications only.	<table border="1"> <thead> <tr> <th>Lamp</th> <th>ANSI Ballast</th> </tr> </thead> <tbody> <tr> <td>150 watt</td> <td>M57, M107</td> </tr> <tr> <td>360 watt</td> <td>M59, M165</td> </tr> <tr> <td>920 watt</td> <td>M47</td> </tr> </tbody> </table>	Lamp	ANSI Ballast	150 watt	M57, M107	360 watt	M59, M165	920 watt	M47
Lamp	ANSI Ballast									
150 watt	M57, M107									
360 watt	M59, M165									
920 watt	M47									
Parking lots	2. MS360/SS/BT37 can be used in open fixtures if used in the base-up position. Horizontal position requires an enclosed fixture. See lamp warning for complete instruction.	The M150/SS lamp will operate on a lag or CWA M107 ballast, or a CWA M57 ballast.								
Canopy lighting	3. MSP360/SS is designed for use in open fixtures.	The MS and MSP360/SS lamps will operate on M165 or standard M59 metal halide CWA or lag ballasts.								
Security lighting	4. Lamps operate in standard HID mogul sockets or in position oriented mogul (POM) sockets.	The M920/SS lamp will operate on a standard M47 metal halide CWA ballast.								
Flood lighting										



### Sample Specification

Lamp(s) shall be (a) SUPER METALARC PRO-TECH MSP360/SS/BU-ONLY energy saving metal halide lamp(s) for use in open fixture(s).

### Installed Savings

Lamp Type	Watts	Number of Lamps	Energy Cost per Year	Energy Savings per Year***
M400/U	400	500	\$114,500	\$0
MS360/SS/BU-HOR	360	500	\$104,500	\$10,000
M175/U	175	100	\$10,500	\$0
M150/SS/U/BT28	150	100	\$9250	\$1250
M1000/U	1000	500	\$287,500	\$0
M920/SS/U/BT56	920	500	\$264,500	\$23,000

\*\*\*Base-up orientation. Based on \$0.10 / kWh, 5000 hours per year; 1150W per fixture for the 1000W lamp and 1058W per fixture for the 920W lamp; 458W per fixture for the 400W lamp, and 418W fixture for the 360W lamp; 210W fixture for the 175W lamp, 185W fixture for the 150W lamp.

**WARNING:** This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if the outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

### Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Ballast	Average <sup>1</sup> Rated Life (hrs.)	Initial Lumens	Mean Lumens	CRI	CCT
64719	M150/SS/U/BT28	150	BT28	Mogul	M57, M107/E	10,000V 7500H	13,000V 12,000H	7500V <sup>2</sup> 8500H	65	4000K
64655	MS360/SS/BU-HOR <sup>2,3</sup>	360	BT37	Mogul	M59/S, M165/S	20,000V 15,000H	36,000V 30,000H	23,500V 19,000H	65	4000K
64656	MS360/C/SS/BU-HOR <sup>2,3</sup>	360	BT37	Mogul	M59/S, M165/S	20,000V 15,000H	36,000V 30,000H	22,500V 19,000H	70	3600K
64737	MSP360/SS/BU-ONLY <sup>3</sup>	360	BT37	Mogul	M59/O, M165/O	20,000	36,000	23,500	65	4000K
64738	MSP360/C/SS/BU-ONLY <sup>3</sup>	360	BT37	Mogul	M59/O, M165/O	20,000	34,500	22,500	70	3600K
64828	MS360/SS/BU-ONLY/ED28 <sup>3</sup>	360	ED28	Mogul	M59/E, M165/E	20,000	36,000	23,400	65	4000K
64829	MS360/C/SS/BU-ONLY/ED28 <sup>3</sup>	360	ED28	Mogul	M59/E, M165/E	20,000	34,200	22,000	70	3700K
64850	M920/SS/U/BT56 <sup>3</sup>	920	BT56	Mogul	M47/E	18,000V 12,000H	95,000V 87,000H	76,000V 61,000H	65	4000K

Notes:

- Average Rated Life based on 10 hour per start operation on ANSI approved ballast.
- S-rated lamps operated base-up within 15 degrees may be operated in an open fixture. See lamp warning in catalog or on lamp packaging for additional operating instructions.
- For lamp wattages of 360W and greater, it is recommended that lampholders with nickel-plated copper alloy center contacts (with spring) should be used rather than electrical contacts made of stainless steel.

### Ordering Guide

M, MS or MSP	150	/	C	/	SS	/	U	/	BT28
METALARC, SUPER METALARC or SUPER METALARC PRO-TECH High Output Metal Halide	Wattage: 150, 360 and 920 watts	/	Finish: ___ = Clear C = Coated	/	SUPER SAVER	/	Operating position: BU-HOR = Base up to horizontal BU-ONLY = Base up only U = Universal	/	Bulb Size: BT28

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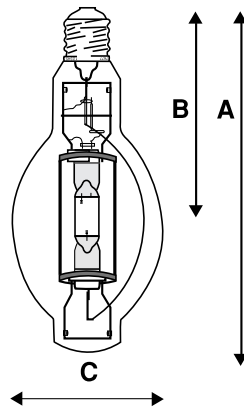
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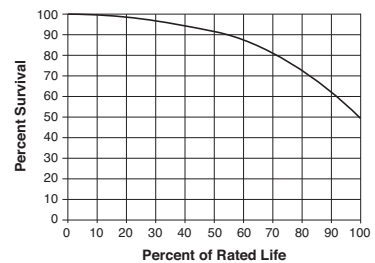
### Dimensions



Bulb Size	(A) MOL	(B) LCL	(C) Bulb Diameter
BT28/ED28	8.3"	5.0"	3.5"
BT37	11.5"	7.0"	4.6"
BT56	15.4"	9.5"	7.0"

### Technical Information

#### Typical Mortality Curve - Base Up Operation



#### Typical Lumen Depreciation - Base Up Operation

