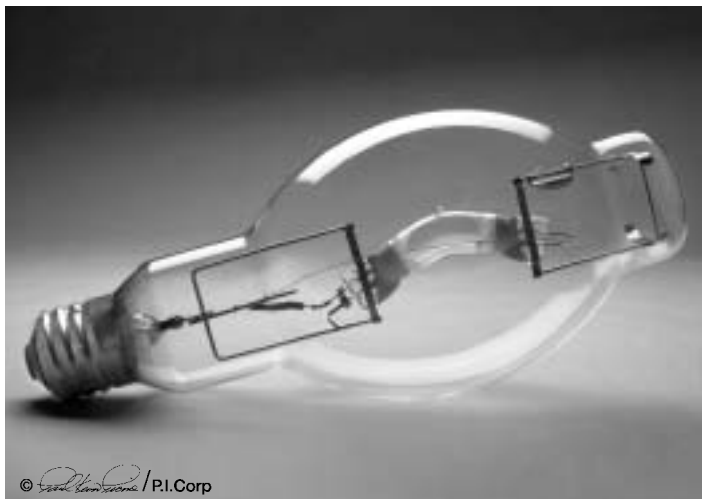


SUPER METALARC®

Metal Halide Lamps



- Improved arc tube design
- Increased light output
- Up to 20,000 hours average rated life
- Energy efficient—up to 115 LPW
- Color stability
- Position oriented mogul bases (horizontal types)
- Available in clear and coated
- Lead-free welded bases

SYLVANIA SUPER METALARC® lamps provide a higher light output than comparable standard metal halide lamps.

The SUPER METALARC metal halide lamps are designed for use where an increased light output and a longer life is required.

Available in 175, 250, 400, and 1000 watts, in both clear and phosphor coated outer jackets, SUPER METALARC lamps are ideal for numerous applications. All wattages except the 1000 watt products are offered with a warm 3200K phosphor for use in retail applications.

SUPER METALARC lamps are optimized for horizontal, base-up or base-down operation. The uniquely designed arc tube results in a peak performance and a substantial increase in initial and mean lumens.

Product Availability

Wattage	Finish	Base	Bulb Shapes
175	Clear /coated	POM	BT28
250	Clear /coated	POM	BT28
400	Clear /coated	POM/Mogul	BT37
1000	Clear /coated	Mogul	BT56

System Comparison

METALARC SUPER 400 Watt versus standard M400/U

Lamp Type	Efficacy	Initial Lumens	Mean Lumens	Av. Rated Life (hrs)
SYLVANIA MS400/HOR	97.5 Lm/W	39,000	26,000	20,000
Standard M400/U*	80 Lm/W	32,000	20,500	15,000

*Horizontal operation

Application Information

Applications

Industrial, commercial and retail
Shopping malls
Lobbies
Atriums
Flood lighting
Security lighting
Parking lots

Application Notes

1. SUPER METALARC 175, 250, and some 400 watt lamps are for use in horizontal burning positions. These lamps operate in position oriented mogul bases.
2. SUPER METALARC 400 and 1000 watts lamps can be used either in a base-up or base-down position. These lamps operate in standard HID mogul sockets.
3. Some SUPER METALARC lamps operate vertically within 15°, and may be operated in OPEN fixtures ("S" rated).

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

SUPER METALARC lamps operate on the same ANSI ballasts as the standard Metal Halide lamps they replace.



Sample Specification

Lamp(s) shall be (a) SUPER METALARC MS400/HOR having 39,000 initial lumens. Lamp construction shall have a CRI of at least 65 and 4200K correlated color temperature.

Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Code	Average Rated Life (Hrs.)	Initial Lumens	Mean Lumens	CCT	CRI
64439	MS175/HOR	175	BT28	P.O.M. ²	M57/E	7500	15,000	10,000	4200K	65
64440	MS175/C/HOR	175	BT28	P.O.M. ²	M57/E	7500	14,500	9700	4000K	70
64448	MS250/HOR	250	BT28	P.O.M. ²	M58/E	10,000	23,000	15,000	4200K	65
64449	MS250/C/HOR	250	BT28	P.O.M. ²	M58/E	10,000	22,000	14,000	3800K	70
64496	MS250/3K/HOR	250	BT28	P.O.M. ²	M58/E	10,000	17,200	13,500	3200K	70
64445	MS400/HOR	400	BT37	P.O.M. ²	M59/E	20,000	40,000	25,000	4200K	65
64446	MS400/C/HOR	400	BT37	P.O.M. ²	M59/E	20,000	38,000	24,000	3800K	70
64498	MS400/3K/HOR	400	BT37	P.O.M. ²	M59/E	20,000	33,500	23,300	3200K	70
64443	MS400/HOR/BT-28	400	BT28	P.O.M. ²	M59/E	20,000	40,000	26,000	4200K	65
64444	MS400/C/HOR/BT-28	400	BT28	P.O.M. ²	M59/E	20,000	36,500	24,000	3800K	70
64450	MS400/BU-ONLY	400	BT37	E39 Mogul	M59/S	20,000	42,000	26,000	4000K	65
64452	MS400/C/BU-ONLY	400	BT37	E39 Mogul	M59/S	20,000	42,000	24,700	3600K	70
64451	MS400/BD-ONLY	400	BT37	E39 Mogul	M59/S	20,000	42,000	27,500	4000K	65
64454	MS400/3K/BU-ONLY	400	BT37	E39 Mogul	M59/S	20,000	35,000	22,000	3200K	70
64441	MS400/BU-ONLY/BT-28	400	BT28	E39 Mogul	M59/E	20,000	42,000	26,000	3800K	65
64435	MS1000/BU-ONLY	1000	BT56	E39 Mogul	M47/S	18,000	115,000	92,000	4000K	65
64460	MS1000/C/BU-ONLY	1000	BT56	E39 Mogul	M47/S	18,000	110,000	88,000	3400K	70
64436	MS1000/BD-ONLY	1000	BT56	E39 Mogul	M47/S	18,000	115,000	92,000	4000K	65

- In actual applications on a CWA ballast the mean lumens will be higher.
- Position-oriented mogul base
- 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.

E = Lamps classified as E-type are to be used ONLY in suitably rated enclosed luminaires.

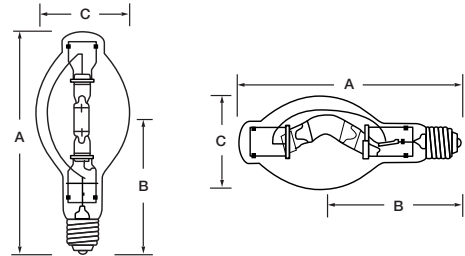
S = When operated within 15 degrees of vertical, this lamp may be operated in an open luminaire provided the installation is not near people or flammable or combustible material, otherwise it must be operated in a suitably enclosed fixture.

Ordering Guide

MS	400	/	—	/	HOR	/	BT-28
Super	Wattage:		Finish:		Operating position:		Bulb Shape:
Metalarc	175, 250,		— = Clear		BU-ONLY = Base up only		— = Standard
Metal	400 and 1000W		C = Coated		BD-ONLY = Base down only		BTxx = Compact
Halide					HOR = Horizontal		

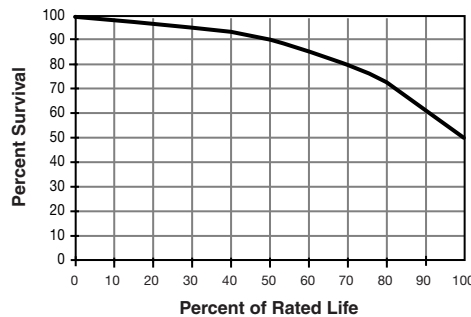
Dimensions

Bulb Shape	(A) MOL	(B) LCL	(C) Bulb Diameter
BT28	8-5/16"	5"	3-1/2"
BT37	11-1/2"	7"	4-5/8"
BT56	15-3/8"	9-1/2"	7"

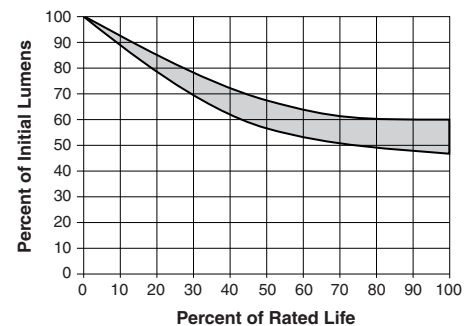


Technical Information

Typical Survival Curve



Typical Lumen Depreciation



Ultraviolet Radiation Exposure

WARNING! THIS LAMP CAN CAUSE SERIOUS SKIN BURN AND EYE INFLAMMATION FROM SHORT-WAVE ULTRAVIOLET RADIATION IF THE OUTER ENVELOPE (GLASS BULB) 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 punctured or broken are commercially available from OSRAM SYLVANIA Products Inc.

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