STANDARD METALARC®

General Purpose Metal Halide Lamps



Key Features & Benefits

- Broad range available — up to 1500W
- Well-balanced white light, available in 3000K and 4000K correlated color temperature
- Multiple choices allow design flexibility
- Low initial costs
- Universal operating position on most types
- Lead-free welded base and lead-free glass
- Durable mount structure and lamp construction
- Available in clear and coated
- Good CRI

STANDARD METALARC lamps are an economical choice for a high efficacy, long life, white light source.

SYLVANIA STANDARD METALARC lamps are offered in a range of wattages from 175 to 1500 watts. This family of lamps allows for design flexibility with multiple light source solutions to choose from. Lamps with universal operating position allow for a wider range of applications. In addition, METALARC lamps have significantly higher efficacy than mercury vapor or incandescent and considerably better CRI than mercury vapor and high pressure sodium. Wattages lower than 175W are also available as METALARC PRO-TECH® lamps for use in open fixtures.

Product Offering

Wattage	Bulb Shape	Finish
175	BT-28	Clear, Coated
250	BT-28	Clear, Coated
400	BT-37	Clear, Coated
1000	BT-56	Clear, Coated
1500	BT-56	Clear

Application Information

Applications

- Area lighting
- Greenhouses
- Indoor and outdoor
- Industrial and commercial
- Retail facilities
- Shopping malls
- Sports lighting
- Street lighting
- Warehouses

Application Notes

1. Lamps are rated for use in enclosed fixtures (see footnotes for exceptions).
2. Most are designed for universal burning positions.

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

Lamps are approved for use on systems meeting the respective ANSI standard (see Ordering and Specification Information section for more details).

Specification Data

Catalog # Type

Project

Comments

Prepared by Date

Ordering Information

Item Number	Ordering Abbreviation	Bulb	Base	ANSI Code	Avg. Rated Life (hrs.)[1]	Initial Lumens	Mean Lumens	CRI	CCT
64471	M175/U	BT-28	E39 Mogul	M57/E	10,000V	14,400V	9300V	65	4200K
					7500H	12,800H	9300H		
64472	M175/C/U	BT-28	E39 Mogul	M57/E	10,000V	14,000V	8400V	70	3800K
					7500H	12,000H	8400H		
64473	M175/3K/BU-ONLY	BT-28	E39 Mogul	M57/E	10,000	11,800	7600	70	3200K
64457	M250/U	BT-28	E39 Mogul	M58/E	10,000	22,000V	15,000V	65	4200K
					7500H	20,000H	13,000H		
64458	M250/C/U	BT-28	E39 Mogul	M58/E	10,000	21,500V	17,000V	70	3800K
					7500H	19,500H	14,000H		
64475	M250/3K/BU-ONLY	BT-28	E39 Mogul	M58/E	10,000	17,500	13,000	70	3200K
64490	M400/U	BT-37	E39 Mogul	M59/S[1]	20,000V	36,000V	23,500V	65	4000K
					15,000H	32,000H	20,500H		
64492	M400/C/U	BT-37	E39 Mogul	M59/S[1]	20,000V	36,000V	22,500V	70	3700K
					15,000H	32,000H	20,500H		
64468	M1000/U	BT-56	E39 Mogul	M47/S[1]	18,000V	110,000V	86,000V	65	4000K
					12,000H	107,800H	86,000H		
64470	M1000/C/U	BT-56	E39 Mogul	M47/S[1]	18,000V	107,000V	80,000V	70	3400K
					12,000H	101,600H	80,700H		
64431	M1500/BU-HOR	BT-56	E39 Mogul	M48/E	3000	170,000V[2]	140,000V	70	4000K
						153,000H			
64432	M1500/BD	BT-56	E39 Mogul	M48/E	3000	167,000V	140,000V	70	4000K

Notes:

1. 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.
2. 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.

Lamp Comparison

400 Watt Metal Halide

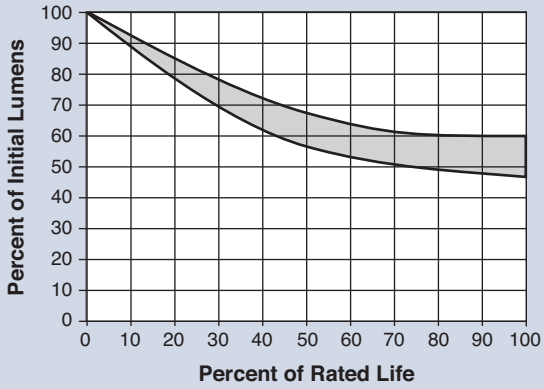
Lamp Type	Bulb	Base	Initial Lumens	Color Temp.	CRI	Avg. Rated Life (hrs.)	Benefits
STANDARD METALARC® 400W	Coated	Mogul	36,000	3700K	70	20,000	Extremely energy efficient and high CRI
MERCURY VAPOR 400W	Coated	Mogul	22,000	4000K	45	24,000	compared to a mercury vapor lamp

Ordering Guide

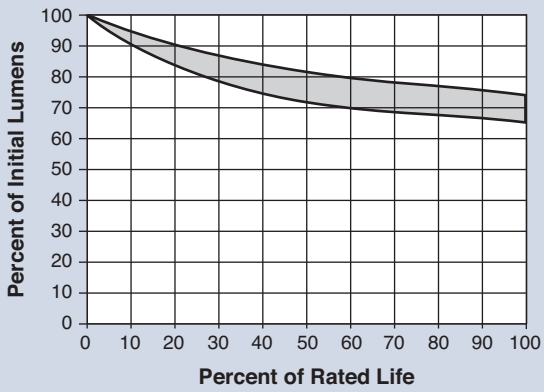
M	400	/	C	/	U
STANDARD METALARC	Wattage: 175, 250, 400, 1000 and 1500W		Finish: __ = Clear C = Coated		Operating position: U = Universal BU-ONLY = Base up BU-HOR = Base up to Horizontal BD = Base Down

Technical Information

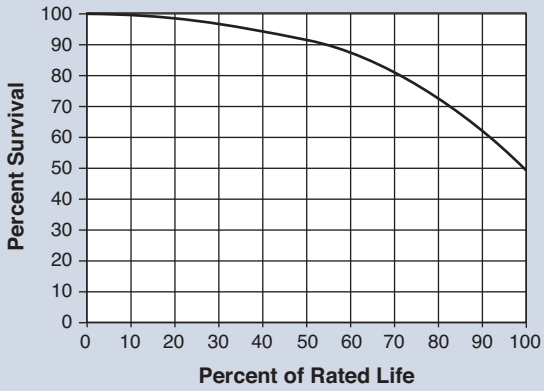
**STANDARD METALARC®
(except 1000W and 1500W)**



1000W and 1500W METALARC

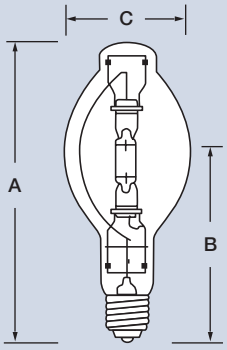


Typical Survival Curve



Lamp Dimensions

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



Sample Specification

Lamp(s) shall be METALARC® metal halide lamp(s) rated for universal operating positions and constructed with a lead-free welded base and lead-free glass.

WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave 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.

For information on low wattage metal halide or open fixture rated METALARC PRO-TECH® lamps, see Product Information Bulletin HID025. Lamps are also available as high output SUPER METALARC®, energy saving METALARC SUPERSAVER®, and smaller sized COMPACT METALARC. Contact your OSRAM SYLVANIA representative for information.

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