

METALARC PRO-TECH[®]

Open Fixture Metal Halide Lamps



SYLVANIA METALARC PRO-TECH[®] lamps allow added flexibility by incorporating open fixture technology to a full compliment of lamp wattages.

The METALARC PRO-TECH metal halide lamps were created to fill the need for a safe light source for applications where a protective lens on the metal halide fixture was either impractical or detrimental to fixture design. The METALARC PRO-TECH lamp design ensures safety in open or enclosed fixtures and includes a shroud around the arc tube and, in some cases, a thicker walled outer jacket. In addition, METALARC PRO-TECH lamps have a reduction in UV output compared to standard metal halide lamps.

With the benefit of open fixtures, these high output Metalarc PRO-TECH lamps are ideal for higher ceiling applications where enclosed fixtures might previously have been necessary. The use of open fixtures means more light output over life and lower maintenance costs because there are no lenses to gather dirt and dust and lengthen lamp replacement procedures.

- Full range of wattages from 50 through 175 watts in a medium base and from 175 through 1000 watts in a Mogul base
- METALARC PRO-TECH[®] design - glass shroud for containment and UV-reduction
- Open or enclosed fixture operation
- Universal operating position on low wattage lamps
- Up to 20,000 hours average rated life
- Lower maintenance costs
- Lower initial luminaire cost
- Reduced luminaire dirt depreciation
- Dedicated sockets for 50 through 250 watt lamps
- Available in clear and coated

PRODUCT AVAILABILITY

Available wattages	Outer jacket	Fixture
50, 70, 100, 150, 175, 250, 400, and 1000 watts	Clear and Coated	Open or Enclosed

LAMP COMPARISON

Lamp Type	Fixture	Initial Lumens	Mean Lumens	Av. Rated Life (Hrs)	Color Temp.
MP250/BU-ONLY	Open or Enclosed	23,000	17,000	10,000	4000K
M250/U	Enclosed Only	22,000	17,000	10,000	4200K

APPLICATION INFORMATION

Applications

- Ambient lighting for Industrial Commercial, and Retail
- Malls
- Lobbies, atriums
- Flood lighting
- Security lighting
- Parking Lots

Sockets

- To prevent relamping with standard metal halide lamps, a special socket is provided with open fixtures for 50, 70, 100, 150, 175, and 250 watt lamps.
- Operating orientation: Consult product description and lamp catalog.

Fixtures

Consult your local fixture agent for information on the vast array of available fixtures.



ORDERING AND SPECIFICATION INFORMATION

Item Number	Ordering Abbreviation	Bulb Shape	Base	ANSI Spec.	Average Rated Life ²		Initial Lumens	Mean ³ Lumens	Color Temp.	CRI
					Vertical (hrs.)	HOR (hrs.)				
64587	MP50/U/MED	E17	Med.	M110	12,000	9,000	3,450	2,000	3000K	70
64588	MP50/C/U/MED	E17	Med.	M110	12,000	9,000	3,200	1,820	2900K	70
64547	MP70/U/MED	E17	Med.	M98	15,000	10,000	5,200	3,900	3000K	75
64546	MP70/C/U/MED	E17	Med.	M98	15,000	10,000	4,700	3,600	2900K	75
64417	MP100/U/MED	E17	Med.	M90	15,000	10,000	8,500	6,400	3000K	75
64418	MP100/C/U/MED	E17	Med.	M90	15,000	10,000	7,900	5,800	2900K	75
64416	MP100/U/4K/MED ⁵	E17	Med.	M90	10,000	7,500	8,000	5,800	4000K	80
64402	MP150/U/MED	E17	Med.	M102	15,000	10,000	12,900	10,000	3000K	75
64406	MP150/C/U/MED	E17	Med.	M102	15,000	10,000	11,600	9,000	2900K	75
64733	MP175/MED/BU-ONLY	E17	Med.	M57	10,000	N/A	14,400	10,800	3600K	65
64773	MP175/BU-ONLY	BT28	Mogul ¹	M57	10,000	N/A	14,400	10,200	4000K	65
64774	MP175/C/BU-ONLY	BT28	Mogul ¹	M57	10,000	N/A	14,000	10,000	3600K	70
64404	MP250/BU-ONLY	BT28	Mogul ¹	M58	10,000	N/A	23,000	17,000	4000K	65
64405	MP250/C/BU-ONLY	BT28	Mogul ¹	M58	10,000	N/A	20,500	17,000	3600K	70
64705	MP400/BU-ONLY	BT37	Mogul	M59	20,000	N/A	38,000	25,000	3800K	65
64706	MP400/C/BU-ONLY	BT37	Mogul	M59	20,000	N/A	36,500	25,000	3400K	70
64717	MP400/BD-ONLY	BT37	Mogul	M59	20,000	N/A	38,000	25,000	3800K	65
64714	MP1000/BU-ONLY	BT56	Mogul	M47	12,000	N/A	107,000	85,500	3500K	65
64716	MP1000/C/BU-ONLY	BT56	Mogul	M47	12,000	N/A	100,000	80,000	3200K	70

- Notes:
1. Mogul Restricted Base.
 2. Average rated life based on 10 hours per start operating on an ANSI ballast.
 3. In actual applications on a CWA ballast the mean lumens will be higher.
 4. All 50, 70, 100, and 150 watt lamps must be operated in a 4000V pulse rated socket.
 5. Ask your local sales representative about product availability

SAMPLE SPECIFICATION

Lamp(s) shall be (a) METALARC PRO-TECH Lamp(s) constructed with an arc tube shroud and shall be designed for open fixture operation and reduced UV output.

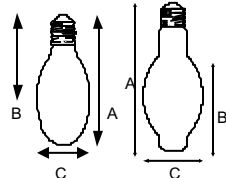
ORDERING GUIDE

MP 400 / / BU-ONLY / /

METALARC Wattage: Finish: Operating Position: Base:
PRO-TECH® 50,70,100, ___ = Clear Base Up only ___ = Mogul
Open Fixture 150,175, 250, C = Coated Base Down Only MED = Medium
Metal Halide 400,1000 Universal

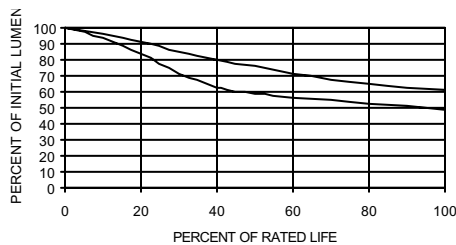
DIMENSIONS

Bulb Shape	(A) MOL	(B) LCL	(C) Diamet ^r
ED17	5.4"	3.4"	2.1"
BT28	8.3"	5.0"	3.5"
BT37	11.5"	7.0"	4.6"
BT56	15.4"	9.5"	7.0"



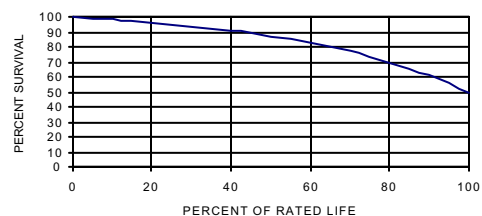
TECHNICAL INFORMATION

Typical Lumen Depreciation Range



TECHNICAL INFORMATION

Typical Mortality Curve



Expanded Line of SYLVANIA METALARC PRO-TECH Products

In addition to the line of Metalarc PRO-TECH lamps listed, OSRAM SYLVANIA offers a line of PAR38 Metalarc PRO-TECH lamps and Designer Series Metalarc PRO-TECH lamps for use in open fixtures. Consult Product Information Bulletins HID024 and HID019 for additional information on PAR38 Metalarc PRO-TECH and Designer Series Metalarc PRO-TECH lamps.

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 ORDERS AND GENERAL INFORMATION

OSRAM SYLVANIA National Customer Support Center, 18725 N. Union Street, Westfield, IN 46074

Industrial & Commercial

Phone: 1-800-255-5042
Fax: 1-800-255-5043

National Accounts

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