

METALARC PULSE START – E17 Low Wattage

Metal Halide Lamps for Open and Enclosed Fixtures



SYLVANIA METALARC PRO-TECH® and METALARC PULSE START low wattage E17 lamp premium performance provides opportunities for higher maintained illumination levels and substantial energy savings.

The METALARC PRO-TECH lamp design enhances 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. 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, thus extending lamp replacement procedures.

The METALARC enclosed rated E17 lamps provide a solution for enclosed rated fixtures and contain all the benefits of the pulse start technology including reduction in color shift over the life of the lamp, better lumen maintenance and potentially longer life.

SYLVANIA offers the most comprehensive lamp and ballast system solutions. For compatible SYLVANIA ballasts please refer to our Lamp and Ballast Catalog or contact your local SYLVANIA representative.

Key Features & Benefits

- Full range of wattages from 50 to 175 watts
 - 70W, 100W, 150W and 175W lamps available for enclosed rated fixtures
- Medium base lamps
- Universal operating position
- Up to 20,000 hours average rated life
- Available in clear and coated
- METALARC PRO-TECH design – glass shroud for containment and UV-reduction – suitable for use in open or enclosed fixtures
 - NEC 2005 and later revisions require new construction and/or major renovations
 - To use open rated lamps with EX39 sockets in open fixtures, OR
 - Fixtures with a lens
- Lower maintenance costs
- Lower initial luminaire cost
- Reduced luminaire dirt depreciation
- Dedicated exclusionary medium socket for 50-150 watts with open rated lamps
- Retrofits into standard sockets

Product Offering

Wattages	Outer Jacket	Fixture
50, 70, 100, 150	Clear and Coated	Open or Enclosed Rated
70, 100, 150, 175	Clear and Coated	Enclosed Rated Only

Application Information

Applications

- Ambient lighting for industrial and retail
- Flood lighting
- Lobbies, atriums
- Malls
- Parking lots
- Security lighting

Sockets

1. To prevent relamping an open fixture with standard metal halide lamps, a special socket is available with open fixtures for all lamp types.
2. Operating orientation: 50-150W operate in the universal orientation. 175W is for base up only applications.

Fixtures

Contact your local fixture agent for available fixtures.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Information

METALARC PRO-TECH® PULSE START

Item Number	Ordering Abbreviation	Watts	Finish	Bulb	Base	ANSI Code	Average Rated Life (hr.) ¹		Initial Lumens	Mean Lumens	Color Temp.	CRI
							Vertical	HOR				
64587	MP50/U/MED	50	Clear	E17	Med.	M110/O	20,000	10,000	3,450	1,600	3000K	70
64588	MP50/C/U/MED	50	Coated	E17	Med.	M110/O	20,000	10,000	3,200	1,820	2900K	70
64547	MP70/U/MED	70	Clear	E17	Med.	M98/O	15,000	10,000	5,200	3,400	3000K	75
64546	MP70/C/U/MED	70	Coated	E17	Med.	M98/O	15,000	10,000	4,700	3,100	2900K	75
64417	MP100/U/MED	100	Clear	E17	Med.	M90/O	15,000	10,000	8,500	5,525	3000K	75
64418	MP100/C/U/MED	100	Coated	E17	Med.	M90/O	15,000	10,000	7,900	3,900	2900K	75
64402	MP150/U/MED	150	Clear	E17	Med.	M102/O	15,000	10,000	12,900	6,550	3000K	75
64406	MP150/C/U/MED	150	Coated	E17	Med.	M102/O	15,000	10,000	11,000	5,300	2900K	73

METALARC® PULSE START (Rated for enclosed fixtures)

Item Number	Ordering Abbreviation	Watts	Finish	Bulb	Base	ANSI Code	Average Rated Life (hr.) ¹		Initial Lumens	Mean Lumens	Color Temp.	CRI
							Vertical	HOR				
64836	M70/U/MED	70	Clear	E17	Med.	M98/E	12,000		6,000	3,300	4000K	65
64818	M100/U/MED	100	Clear	E17	Med.	M90/E	12,000		8,500	4,675	4000K	65
64785	M150/U/MED	150	Clear	E17	Med.	M102/E	12,000		14,000	10,000	4300K	65
64171	MS175/PS/BU-ONLY/MED	175	Clear	E17	Med.	M152/E	15,000		17,500	12,800	4000K	65

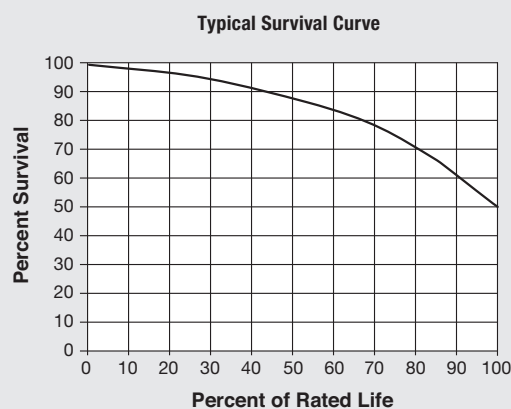
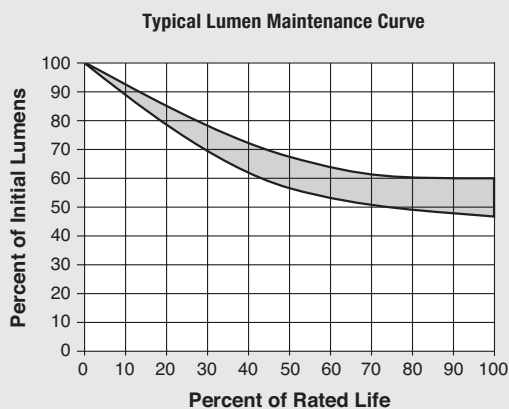
- Notes:
1. Average rated life based on 10 hours per start operating on an ANSI ballast.
 2. All 50, 70, 100, 150 and 175 watt lamps must be operated in a 4000V pulse rated socket.
 3. TCLP claims based on OSRAM SYLVANIA's TCLP test protocol. Some states and localities have lower limits than the Federal TCLP standard and have different disposal regulations for mercury containing lamps.
 4. For higher CRI, use SYLVANIA METALARC POWERBALL® CERAMIC lamps.
 5. See Beam Spread Design Guide for footcandle diagrams.

O = Lamps classified as O-type comply with ANSI Standard C78.389 for containment testing and may be used in open luminaires. See lamp warning.
E = Lamps classified as E-type are to be used only in suitably rated enclosed luminaires.

Ordering Guide

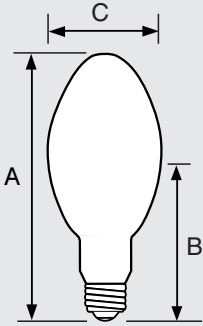
MP	50	/	—	/	U	/	MED
MP=METALARC PRO-TECH® For Open and Enclosed Fixture	Wattage: 50, 70, 100, 150, 175		Finish _ = Clear C = Coated		Operating Position: U = Universal BU-ONLY = Base Up Only		Base: MED = Medium
M=METALARC® MS=METALARC Super For Enclosed Fixture Only							

Technical Information



Lamp Dimensions

Bulb Shape	(A) MOL	(B) LCL	(C) Diameter
E17	5.4" (137.2mm)	3.4" (86.4mm)	2.1" (53.3mm)



Exclusionary Socket for METALARC PRO-TECH® Lamps

Medium Based Dedicated Socket Comparison

E17/ED17 LAMP

METALARC PRO-TECH Medium Base

Exclusionary Medium Socket

Narrow Neck Allows for Insertion into the Socket

E17/ED17 LAMP

Standard Medium Base

Exclusionary Medium Socket

Wide Neck will not fit past Ceramic Neck in Socket

National Electric Code 2005 and later revision require new construction and/or major renovations to use exclusionary sockets in open fixtures, or fixture with a lens.

Safety Information

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.

Related Literature

In addition to the line of METALARC PRO-TECH lamps listed, SYLVANIA offers a line of METALARC POWERBALL® CERAMIC, METALARC PULSE START and METALARC SUPERSAVER® lamps for use in open and or enclosed rated fixtures. Please visit sylvania.com for more information and download a copy of the latest Product Information Bulletin.

Sample Specification

METALARC PRO-TECH® PULSE START

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

METALARC® PULSE START

Lamp(s) shall be (a) 150W METALARC PULSE START lamp(s) exhibiting initial lumens of 14,000 with a 60% mean lumen maintenance and capable of operating on a M102/E ballast. Lamp construction shall include a lead-free welded base.

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