METALARC® PULSE START – ED17 Low Wattage

Metal Halide Lamps for Open and Enclosed Fixtures

SYLVANIA METALARC PRO-TECH® and METALARC PULSE START low wattage ED17 lamp's 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, low wattage 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 ED17 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.

Key Features & Benefits

- Full range of wattages from 50 to 150 watts
  - 70W, 100W and 150W lamps available for enclosed rated fixtures
- Medium base lamps
- Universal operating position
- Up to 15,000 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 exclusionary sockets in open fixtures, OR
    - Suitably enclosed 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	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 exclusionary socket is available with open fixtures for all lamp types.
2. Operating orientation: 50-150W lamps operate in the universal orientation.

Fixtures

Contact your local fixture agent for available fixtures.

SYLVANIA

Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Guide

MX	XX	/	C	/	U	/	MED
Lamp Type: MP = METALARC PRO-TECH® For Open and Enclosed Fixture M = METALARC®	Wattage: 50, 70, 100, 150		Finish: __ = Clear C = Coated		Operating Position: U = Universal BU-ONLY = Base Up Only		Base: MED = Medium

Ordering Information

METALARC PRO-TECH® PULSE START

Item Number	Ordering Abbreviation	Watts	Finish	Bulb	Base	ANSI Code	Average Rated Life (hr.)[1] Vertical (V)	HOR (H)	Initial Lumens (V)	Mean Lumens (V)	CCT	CRI
64587	MP50/U/MED	50	Clear	ED17	E26 Med.	M110/O	15,000	10,000	3450	1550	3000K	70
64547	MP70/U/MED	70	Clear	ED17	E26 Med.	M98/O	15,000	10,000	5200	2750	3000K	70
64546	MP70/C/U/MED	70	Coated	ED17	E26 Med.	M98/O	15,000	10,000	4700	2600	2900K	70
64417	MP100/U/MED	100	Clear	ED17	E26 Med.	M90/O	15,000	10,000	8500	4800	3000K	70
64418	MP100/C/U/MED	100	Coated	ED17	E26 Med.	M90/O	15,000	10,000	7900	3900	2900K	70
64402	MP150/U/MED	150	Clear	ED17	E26 Med.	M102/O	15,000	10,000	12,900	6550	3000K	70
64406	MP150/C/U/MED	150	Coated	ED17	E26 Med.	M102/O	15,000	10,000	11,000	5300	2900K	70

METALARC® PULSE START (Rated for enclosed fixtures)

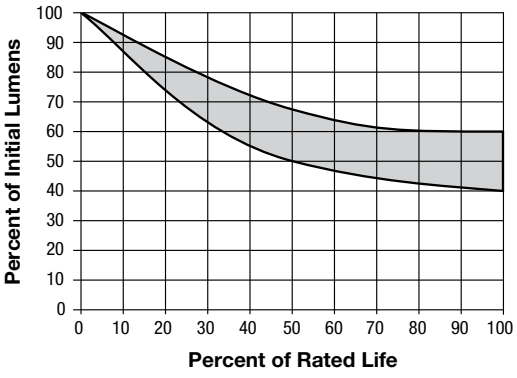
Item Number	Ordering Abbreviation	Watts	Finish	Bulb	Base	ANSI Code	Average Rated Life (hr.)[1] Vertical (V)	Initial Lumens (V)	Mean Lumens (V)	CCT	CRI
64836	M70/U/MED	70	Clear	ED17	E26 Med.	M98/E	12,000	6000	3300	4000K	65
64818	M100/U/MED	100	Clear	ED17	E26 Med.	M90/E	12,000	8500	4675	4000K	65
64785	M150/U/MED	150	Clear	ED17	E26 Med.	M102/E	12,000	14,000	10,000	4000K	65

Notes:
1. Average rated life based on 11 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. For higher CRI, use SYLVANIA METALARC POWERBALL® CERAMIC metal halide lamps.

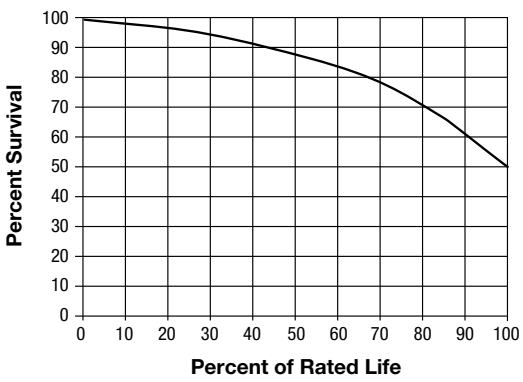
O = Lamps classified as O-type comply with ANSI Standard C78.389 for containment testing and may be used in open luminaires. See lamp warning.
E = Lamps classified as E-type are to be used only in suitably rated enclosed luminaires. See lamp warning.

Technical Information

Typical Lumen Maintenance Curve

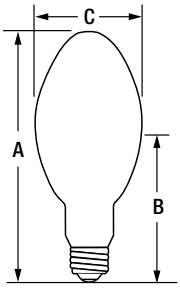


Typical Survival Curve

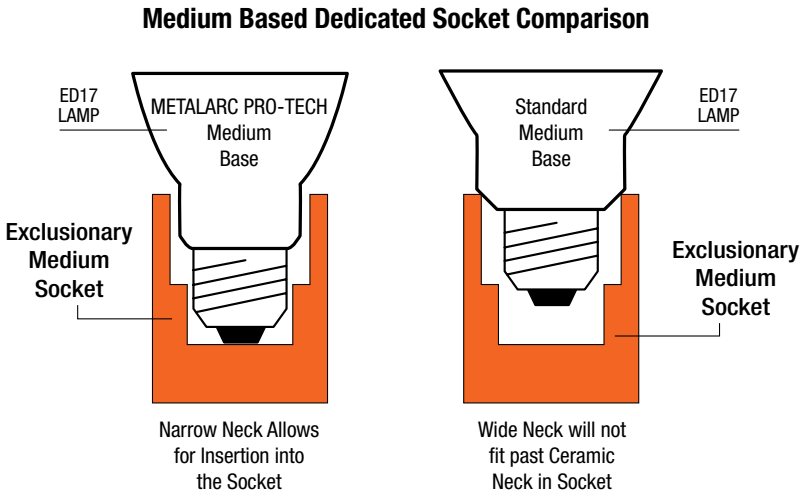


Lamp Dimensions

Bulb Shape	(A) MOL	(B) LCL	(C) Diameter
ED17	5.4" (137.2mm)	3.4" (86.4mm)	2.1" (53.3mm)



Exclusionary Socket for METALARC PRO-TECH® Lamps



National Electric Code 2005 and later revisions require new construction and/or major renovations to use exclusionary sockets in open fixtures, or a suitably enclosed 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.

This product conforms to the following federal regulations: U.S.A.: 21 CFR 1040.30 and CANADA: SOR/80-381.

Related Literature

In addition to the line of METALARC PRO-TECH lamps listed, LEDVANCE offers a line of METALARC POWERBALL® CERAMIC, METALARC PULSE START and METALARC SUPERSAVER® lamps for use in open and or enclosed rated fixtures, depending on the specific product. Please visit ledvanceUS.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.

METALARC® PULSE START (Example)
Lamp(s) shall be (a) 150W METALARC PULSE START M102/E lamp(s) exhibiting initial lumens of 14,000 and capable of operating on a M102 ballast. Lamp construction shall include a lead-free base.

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