

METALARC POWERBALL® Ceramic

High CRI, Ceramic Metal Halide Medium & Mogul Lamps



Key Features & Benefits

Advantages of POWERBALL Ceramic Arc Tube Technology

- Up to 94 CRI and excellent red rendering (R9), yields more natural and vibrant colors and crisp whites
- Long life and high efficacy
- Superior color stability over the life of the lamp
- Improved lamp-to-lamp color consistency*

- METALARC PRO-TECH® design for open fixture applications. It significantly reduces UV output and minimizes discoloration and fading of materials
- Pulse start arc tube technology
- Open fixture rated products improve fixture efficiency and simplify maintenance
- QUICK 60+® System Warranty when paired with QUICKTRONIC® MH electronic metal halide ballasts

*Compared to standard metal halide lamps.



METALARC POWERBALL Ceramic low and high wattage lamps meet today's color critical needs by combining conventional metal halide pulse start characteristics such as good efficacy and long life with improved lamp-to-lamp color consistency and high CRI (R9).

Compared to conventional quartz metal halide products, SYLVANIA POWERBALL Ceramic arc tube metal halide lamps exhibit less color variation and higher efficacy.

METALARC POWERBALL Ceramic lamps feature a superior performance, spherical arc tube geometry that maximizes lumen output, lumen maintenance color consistency and lamp life. They operate on existing ANSI specified magnetic ballasts and on compatible electronic ballasts. The lamps can be used in appropriate existing fixtures designed for metal halide lamps of similar wattages and configurations. To maximize energy savings, system performance and system warranty, consider operating these lamps on QUICKTRONIC MH electronic metal halide ballasts.

Product Offering

Wattage	Bulb Shape	Outer Jacket	Fixture
70, 100, 150, 320	ED17, BT37	Clear and Coated	Open or Enclosed Rated
70, 100	ED17, ED23.5	Clear	Enclosed Rated Only

See Notes Section for more fixture information.

Application Information

Applications

- Accent lighting
- Display lighting
- Flood lighting
- Industrial high bays
- Landscape luminaires
- Recessed downlights
- Retail

Application Notes

METALARC Ceramic protected (MCP) lamps are rated for use in both open and enclosed rated fixtures. METALARC Ceramic (MC) lamps are rated for use in enclosed fixtures only.

Ballast Information

Contact your LEDVANCE representative or visit www.sylvania.com for a list of compatible electronic control systems and download the latest Ballast Technology & Specification Guide.



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Information

For Open or Enclosed Rated Fixtures

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Code ¹	Average Rated Life (hrs.)	Initial Lumens	Mean Lumens	CCT	CRI	Lamp Efficacy (LPW)
64739	MCP70/U/MED/830 PB	70	ED17	E26 Med.	C98/O	20,000	5,900	4,365	3000K	88	84
64740	MCP70/C/U/MED/830 PB	70	ED17	E26 Med.	C98/O	20,000	5,500	3,900	3000K	88	79
64111*	MCP70/U/MED/940 PB	70	ED17	E26 Med.	C98/O	20,000	6,000	4,320	4000K	93	86
64743	MCP100/U/MED/830 PB	100	ED17	E26 Med.	C90/O	20,000	9,000	6,500	3000K	88	90
64744	MCP100/C/U/MED/830 PB	100	ED17	E26 Med.	C90/O	20,000	8,100	5,100	3000K	88	81
64322	MCP100/U/MED/940 PB	100	ED17	E26 Med.	C90/O	20,000	8,200	6,150	4000K	93	82
64741	MCP150/U/MED/830 PB	150	ED17	E26 Med.	C102/O	20,000	13,000	9,200	3000K	88	87
64834*	MCP320/PS/BU-ONLY/840/BT37 PB	320	BT37	EX39	C154/O	20,000	36,000	28,000	4000K	88	113
64851*	MCP320/C/PS/BU-ONLY/840/BT37 PB	320	BT37	EX39	C154/O	20,000	34,500	26,800	4000K	88	108

For Enclosed Rated Fixtures Only

64862	MC70/U/MED/830	70	ED17	E26 Med.	C98/E	20,000	6,500	4,850	3000K	85	93
64864	MC100/U/MED/830	100	ED17	E26 Med.	C90/E	20,000	9,700	7,150	3000K	85	97
64918	MC100/U/ED23.5/942	100	ED23.5	E39	C90/E	24,000	10,000	8,360	4200K	94	100

*Contact your local LEDVANCE sales representative for availability

1. The first letter of the ANSI code represents the lamp type; "C" for ceramic metal halide and "M" for quartz metal halide. The numbers following the lamp type refer to the electrical characteristics required by the ballast to start and operate the lamp reliably. Ceramic, "C", or quartz, "M" lamps with the same electrical characteristic number will operate on the same ballast (per ANSI C78.380-2007). For example, a 150W ceramic lamp with a C102 designation will operate on a 150W metal halide ballast with an M102 designation and vice versa.

General Notes:

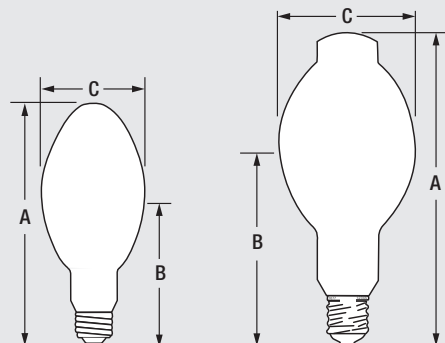
- Contact your local LEDVANCE representative for compatible electronic ballasts.
- All ceramic lamps should be used with 4000V pulse rated socket only.

Ordering Guide

MCP	70	/	C	/	PS	/	U	/	MED	/	830	/	BT37	PB
M = METALARC®	Wattage:		C = Coated		Pulse		Operating position		Base:		8 = 80+ CRI		Bulb size	PB=POWERBALL®
C = Ceramic	70, 100,		_ = Clear		Start		U = Universal		MED = Medium		9 = 90+ CRI		ED17, BT37	
P = Protected	150, 320						BU-Only = Base		E39 = Mogul		30 = 3000K		ED23.5	
(METALARC							Up Only		EX39 = Exclusionary		40 = 4000K			
PRO-TECH®)							Only		Mogul		42 = 4200K			

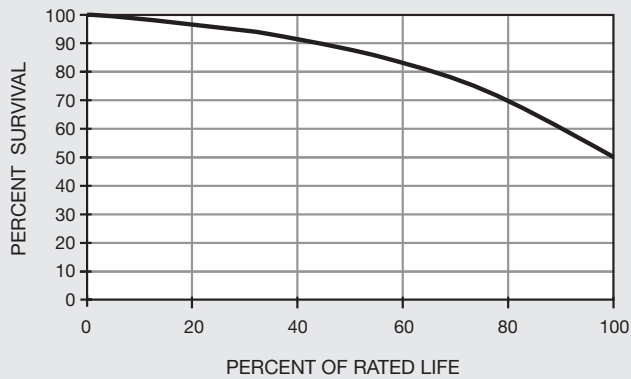
Lamp Dimensions

Lamp Shape	(A) MOL	(B) LCL	(C) Bulb Diameter
ED17	5.00" (127.0mm)	3.00" (76.2mm)	2.125" (54.0mm)
ED23.5	6.97" (251.7mm)	4.49" (114.0mm)	2.94" (74.7mm)
BT37	11.5" (292.1mm)	7.01" (178.1mm)	4.60" (116.8mm)

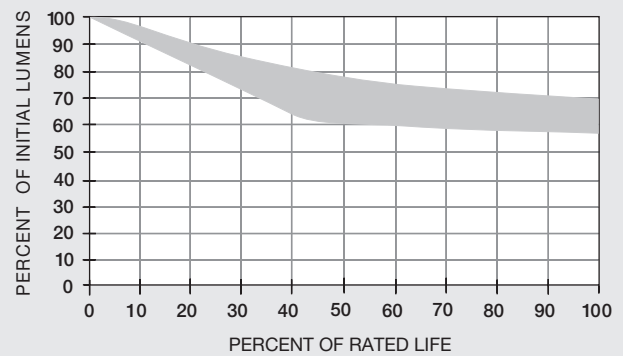


Technical Information

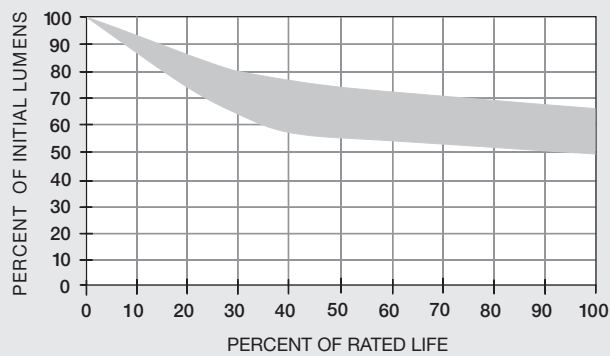
Typical Mortality Curve



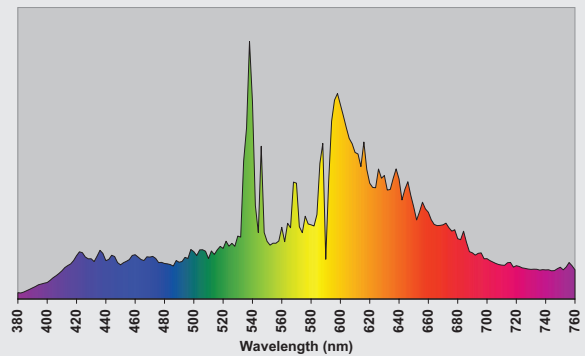
Typical Lumen Maintenance Curve
(with QUICKTRONIC® Electronic Ballasts)



Typical Lumen Maintenance Curve
(with Magnetic Ballast)

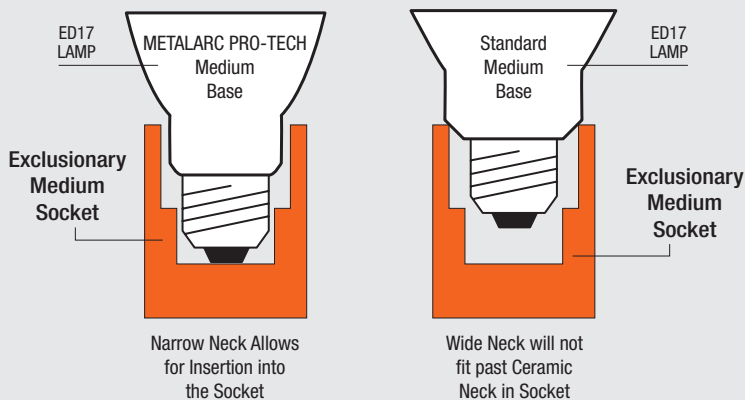


Typical Spectral Power Distribution

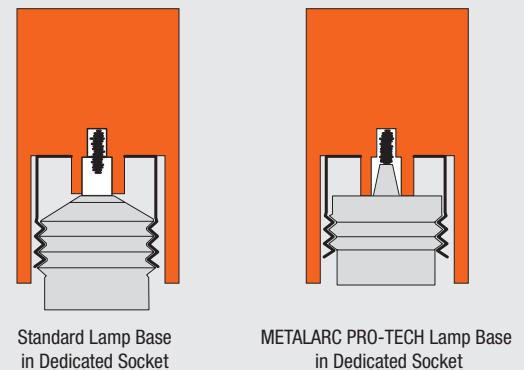


Exclusionary Socket for METALARC PRO-TECH® Lamps

Medium Based Dedicated Socket Comparison



Mogul Based Dedicated Socket Comparison



National Electric Code 2005 and later revision require new construction and/or major renovations to use exclusionary sockets (ex. EX39) 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.

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

Sample Specification

Lamp(s) shall be METALARC® POWERBALL® Ceramic MC70/U/MED/830 lamp(s), and shall be constructed with a spherical ceramic arc-tube with initial lumens of 6,500 and an average rated life of 20,000 hours. Lamp(s) shall have a CRI of 85, CCT of 3000K, and shall exhibit a maximum color shift of $\pm 150K$ over life. Lamps shall be rated for enclosed fixture use only.

Lamp(s) shall be METALARC PRO-TECH® POWERBALL Ceramic MCP70/U/MED/830 lamp(s), and shall be constructed with a spherical ceramic arc-tube with initial lumens of 5,900 and an average rated life of 20,000 hours. Lamp(s) shall have a CRI of 85, CCT of 3000K, and shall exhibit a maximum color shift of $\pm 150K$ over life. Lamps shall be rated for enclosed fixture use only.

Lamps shall be operated on QUICKTRONIC® MH electronic metal halide ballasts and the system shall be covered by the SYLVANIA QUICK 60+® System Warranty.

Related Literature

QUICKTRONIC MH 20W-100W Electronic Metal Halide Systems (Literature Code: ECS054)

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