

METALARC® POWERBALL® CERAMIC T LAMPS

High CRI, Ceramic Metal Halide Tubular Single & Double-Ended Lamps



Advantages of Ceramic Arc Tube Technology

- Excellent CRI, up to 95, yields more natural colors
- Long life and high efficacy
- Lower thermal output than tungsten halogen lamps having similar light output
- Superior color stability over the life of the lamp
- Improved lamp to lamp color consistency*
- UV-Stop technology significantly reduces UV output and minimizes discoloration and fading of materials
- Pulse start arc tube technology
- Strong G8.5 bases on TC lamps allow for more robust handling
- Compact light sources improve fixture optics

* Compared to quartz metal halide lamps of similar wattage

METALARC® POWERBALL® CERAMIC T 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.

Compared to conventional quartz metal halide products, SYLVANIA ceramic arc tube metal halide lamps exhibit less color variation and higher efficacy. Their high mean lumens, excellent color characteristics and compact size allow them to be used in a wide variety of applications.

METALARC POWERBALL CERAMIC lamps 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.

Product Offering

Wattage	Bulb Shapes
20	TC
39	T6, TC
70	T6, TC
150	T7.5
250	T9

Application Information

Applications

Retail stores, malls, lobbies, office areas, landscape lighting, accent lighting, display lighting, studio lighting, industrial/commercial

Fixtures

Contact your local fixture agent for available fixtures.

Ballast Information

Contact your OSRAM SYLVANIA representative for a list of compatible electronic control systems.

Application Notes

1. METALARC POWERBALL CERAMIC T4.5, T6, T7.5, T9, and double-ended products must be operated in enclosed fixtures capable of containing particles as hot as 1200°C.



Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Code ⁴	Avg. Rated Life (hrs)	Initial Lumens	Mean Lumens	CCT	CRI
64882	MC20TC/U/G8.5/830 PB ^{1,3}	20	T4.5	G8.5	C156/E	12,000	1700	1275	3000K	83
64791	MC39TC/U/G8.5/830 PB ^{1,2}	39	T4.5	G8.5	C130/E	12,000	3400	2720	3000K	82
64363	MC39T6/U/G12/830 PB ^{1,2}	39	T6	G12	C130/E	12,000	3400	2720	3000K	82
64325	MC39T6/U/G12/940 PB ^{1,2}	39	T6	G12	C130/E	12,000	3300	2640	4200K	86
64825	MC70TC/U/G8.5/930 PB ^{1,2}	70	T4.5	G8.5	C139/E, C98/E	12,000	6300	5040	3000K	95
64361	MC70T6/U/G12/830 PB ^{1,2}	70	T6	G12	C139/E, C98/E	12,000	7000	5600	3000K	87
64200	MC70T6/U/G12/930 PB ^{1,2}	70	T6	G12	C139/E, C98/E	12,000	6400	5120	3000K	95
64338	MC70T6/U/G12/940 PB ^{1,2}	70	T6	G12	C139/E, C98/E	12,000	6700	5360	4200K	93
64359	MC150T7.5/U/G12/830 PB ¹	150	T7.5	G12	C102/E, C142/E	12,000	15,500	12,400	3000K	89
64337	MC150T7.5/U/G12/940 PB ¹	150	T7.5	G12	C102/E, C142/E	12,000	14,500	11,600	4200K	95
64167	MC250T9/U/G22/830 PB ¹	250	T9	G22	C80/E	12,000	24,500	19,600	3000K	86

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Code ⁴	Avg. Rated Life (hrs)	Initial Lumens	Mean Lumens	CCT	CRI
64793	MC70T6/DE/830 PB ²	70	T6	R7S RSC	C139/E, C85/E, C98/E	12,000	6900	5520	3000K	88
64794	MC150T7.5/DE/830 PB	150	T7.5	R7S RSC	C102/E, C142/E, C81/E	12,000	14,800	11,840	3000K	91

Footnotes:

- The circuit must include overcurrent protection (i.e., Thermally Switched Ballast).
- Minimum open circuit voltage for starting is measured with the ignitor in the circuit, minimum open circuit voltage is 209 V_{RMS}.
- Designed for operation only on electronic ballasts.
- The first letter of an ANSI high-intensity discharge lamp designation represents the lamp type. "M" represents quartz metal halide lamps and "C" represents ceramic metal halide lamps. Following the lamp type, there is a number representing the electrical characteristics of the ballast. "M" or "C" lamps with the same electrical numbers will operate on the same ballasts (per ANSI C78.380-2007). For example, a 150W ceramic metal halide lamp that is intended to operate on a ballast intended for M102 quartz metal halide lamps would have the designation C102.

General Notes:

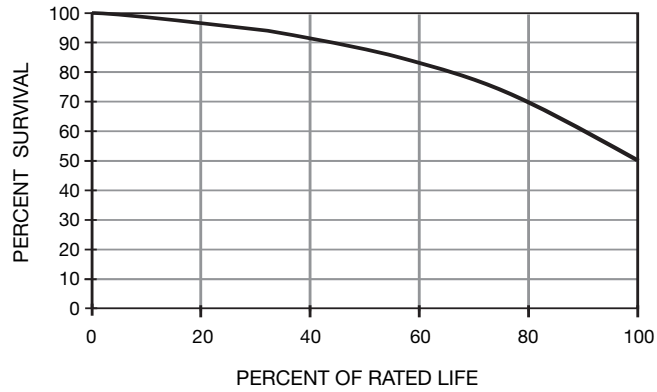
- Contact your local OSRAM SYLVANIA representative for compatible electronic ballasts.
- All ceramic lamps should be used with 4000V pulse rated socket only.
- No special handling requirements during installation (i.e., gloves not required). Always follow normal safety precautions during installation.

Ordering Guide

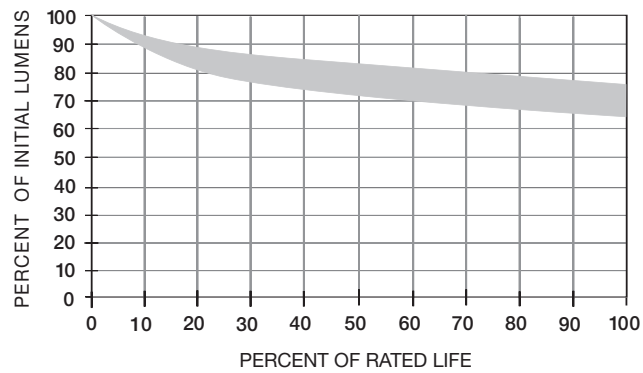
MC	70	T6	/	U	/	G12	/	830	PB
M=METALARC C=CERAMIC	Wattage: 70	Bulb Shape: T6		Operating position: Universal		Base: G12		80+ CRI 3000K	PB=Powerball

Technical Information

Typical Mortality Curve

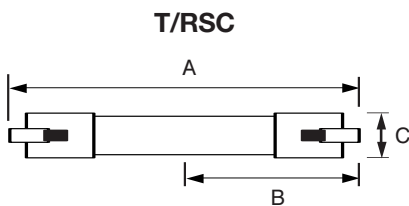


Typical Lumen Maintenance Curve

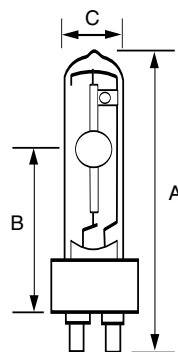


Dimensions

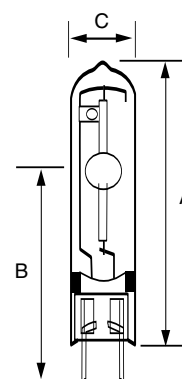
	(A) MOL	(B) LCL	(C) Bulb Diameter
TC	3.19"	2.05"	0.591"
T6/G12	3.94"	2.20"	0.748"
T7.5/G12	4.13"	2.20"	0.984"
T6/RSC	4.50"	2.25"	0.827"
T7.5/RSC	5.20"	2.60"	0.945"
T9/G22	6.89"	3.54"	1.102"



T6 (T7.5)/G12, T9/G22



TC



Sample Specification

Lamp(s) shall be METALARC® POWERBALL® CERAMIC MC70T6/U/G12/830 lamp(s), and shall be constructed with a ceramic arc-tube with initial lumens of 6700. Lamp(s) shall have a CRI of 87, CCT of 3000K, and shall exhibit a maximum color shift of ±150K over life. Lamps shall be rated for open fixture use.

OSRAM SYLVANIA
National Customer
Service and Sales Center
18725 N. Union Street
Westfield, IN 46074

Industrial Commercial

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

National Accounts

Phone: 1-800-562-4671
Fax: 1-800-562-4674

OEM/Specialty Markets

Phone: 1-800-762-7191
Fax: 1-800-762-7192

Display/Optic

Phone: 1-888-677-2627
Fax: 1-800-762-7192

In Canada
OSRAM SYLVANIA LTD.
Headquarters
2001 Drew Road
Mississauga, ON L5S 1S4

Industrial Commercial

Phone: 1-800-263-2852
Fax: 1-800-667-6772

Special Markets

Phone: 1-800-265-2852
Fax: 1-800-667-6772

Visit our website: www.sylvania.com

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.

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