

METALARC® POWERBALL® Ceramic

Metal Halide Tubular Lamps



METALARC POWERBALL Ceramic T lamps meet today's color critical needs with an improved life rating up to 20,000 hours and increase in lumen output.

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 compatible ballasts and on compatible electronic ballasts. The lamps can be used in appropriate existing enclosed 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.

Application Information

Applications

- Accent/track lighting
- Displays
- Façade lighting
- Indirect luminaires
- Landscape luminaires
- Recessed downlights
- Studio lighting

Application Notes

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

Ballast Information

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

Key Features & Benefits

Advantages of POWERBALL Ceramic Arc Tube Technology

- Superior white light
- Excellent CRI, up to 95, yields more natural colors
- Up to 20,000 hour rated life and increased 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 allow for more robust handling
- Compact light sources improve fixture optics
- QUICK 60+® System Warranty when paired with QUICKTRONIC® MH electronic metal halide ballasts

* Compared to quartz metal halide lamps of similar wattage

Product Offering

Wattage	Bulb Shape
20	T4, T4.5
39	T4.5, T6
70	T4.5, T6
150	T6

Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Ordering Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Code ⁴	Average Rated Life (hrs.)	Initial Lumens	Mean Lumens	CCT	CRI	Lamp Efficacy (LPW)
64977	MC20TF/U/GU6.5/830 ^{1,3,5}	20	T4	GU6.5	C156/E	15,000	1,700	1,250	3000K	89	85
64978	MC39TF/U/GU6.5/930 ^{1,2,5}	39	T4	GU6.5	C130/E	15,000	3,600	3,050	3000K	90	92
64975	MC20TC/U/G8.5/830 PB ^{1,3,5}	20	T4.5	G8.5	C156/E	15,000	1,700	1,250	3000K	83	85
64971	MC39TC/U/G8.5/830 PB ^{1,2,5}	39	T4.5	G8.5	C130/E	15,000	3,700	2,800	3000K	85	95
64963	MC39T6/U/G12/930 PB ^{1,2,5}	39	T6	G12	C130/E	15,000	3,100	2,500	3000K	93	72
64970	MC39T6/U/G12/830 PB ^{1,2,5}	39	T6	G12	C130/E	15,000	3,700	2,800	3000K	85	95
64974	MC70TC/U/G8.5/930 PB ^{1,2,5}	70	T4.5	G8.5	C139/E	15,000	6,800	5,300	3000K	94	97
64969	MC70T6/U/G12/830 PB ^{1,2,5}	70	T6	G12	C139/E	15,000	7,400	5,500	3000K	89	106
64964	MC70T6/U/G12/930 PB ^{1,2,5}	70	T6	G12	C139/E	15,000	6,800	5,500	3000K	93	97
64967	MC70T6/U/G12/940 PB ^{1,2,5}	70	T6	G12	C139/E	15,000	6,800	5,300	4200K	95	97
64968	MC150T6/U/G12/930 PB ^{1,5}	150	T6	G12	C142/E	20,000	17,500	14,875	3000K	91	116
64966	MC150T6/U/G12/942 PB ^{1,5}	150	T6	G12	C142/E	20,000	16,200	13,770	4200K	94	108

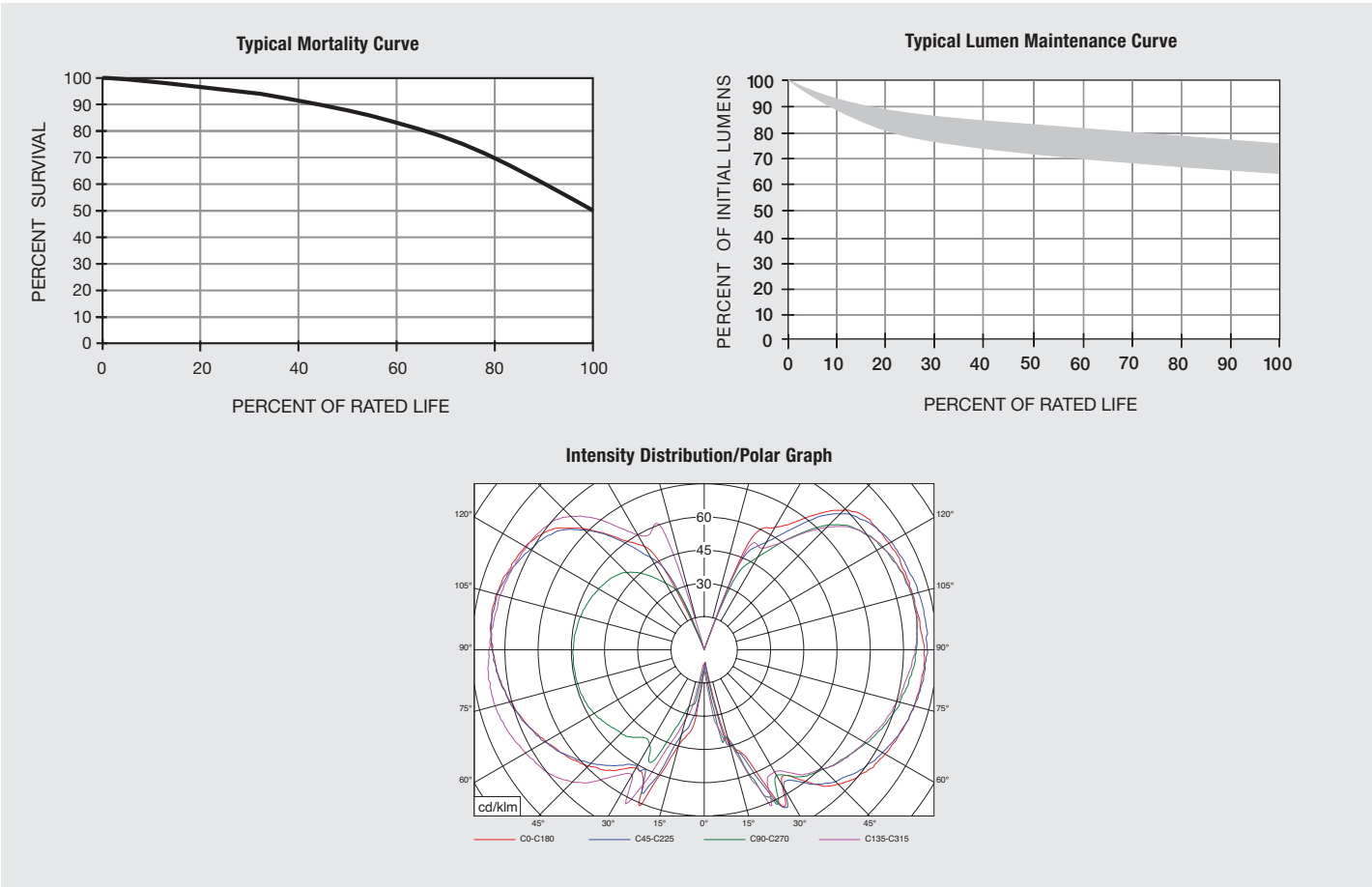
1. The circuit must include overcurrent protection (i.e., thermally switched ballast).
2. Minimum open circuit voltage for starting is measured with the ignitor in the circuit, minimum open circuit voltage is 209 VRMS.
3. Designed for operation only on electronic ballasts.
4. The first letter of an ANSI 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.
5. Performance based on electronic ballast operation.

- General Notes:
- Contact your local LEDVANCE representative for compatible electronic ballasts.
 - All ceramic lamps should be used with 4000V pulse rated socket only.
 - Always follow normal safety precautions during installation.

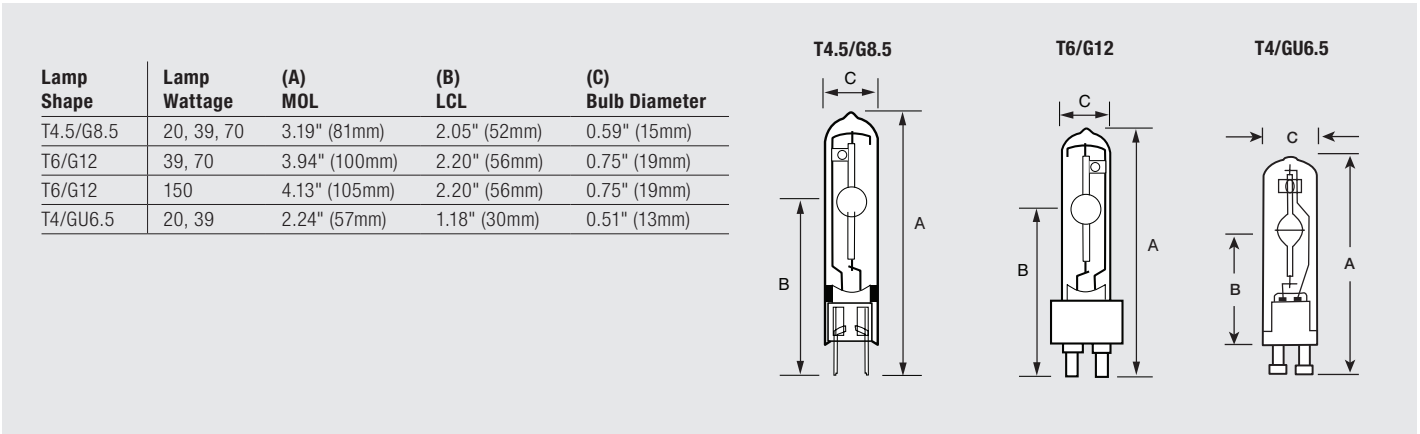
Ordering Information

MC	XX	T6	/	U	/	GXX	/	X	30
Lamp Type: M = METALARC® C = Ceramic	Wattage: 20, 39, 70 and 150	Bulb Shape: T4.5 (TC), T6, T4 (TF)		Operating Position: U = Universal		Base: G8.5, G12, GU6.5		CRI 8 = 80+ 9 = 90+	CCT 30 = 3000K

Technical Information



Lamp Dimensions



Sample Specification

Lamp(s) shall be METALARC® POWERBALL® Ceramic MC70T6/U/G12/830 lamp(s), and shall be constructed with a spherical shaped ceramic arc-tube with initial lumens of 7400. Lamp(s) shall have an average rated life of 15,000 hours, CRI of 89, CCT of 3000K and shall exhibit a maximum color shift of $\pm 150K$ over life. 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)

QUICKTRONIC QHE MH 20W-39W Super Mini Electronic Metal Halide Systems (Literature Code: ECS124)

Safety Information

WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if 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.

LEDVANCE LLC
200 Ballardvale Street
Wilmington, MA 01887 USA
Phone 1-800-LIGHTBULB (1-800-544-4828)
www.sylvania.com

SYLVANIA and LEDVANCE are registered trademarks.
All other trademarks are those of their respective owners.
Licensee of product trademark SYLVANIA in general lighting.
Specifications subject to change without notice.

