COMPACT METALARC® and COMPACT SUPER METALARC®

Reduced Outer Jacket Metal Halide Lamps



COMPACT METALARC® 175, 250, 400 & 1000 watt lamps and COMPACT SUPER METALARC® 400 watt lamps provide increased system efficiency, due to a smaller outer jacket, and superior METALARC performance.

COMPACT METALARC lamps are available in smaller outer jacket sizes to operate in a reduced fixture profile and to increase system efficiency. The reduced bulb diameter allows the fixture designer to locate the lamp arc tube closer to the reflector, thereby increasing fixture efficiency. The broad lamp selection allows the user to specify the size fixture for various wattage lamps due to the reduced envelope size.

Key Features & Benefits

- Smaller, more versatile luminaires
- Lower installation costs
- Increased design flexibility
- Increased system efficiency
- Broad lamp selection
- Appealing, natural color
- Superior color rendering
- Superior METALARC performance
- Extremely energy efficient
- Available in universal, horizontal, or vertical operating positions

Product Offering

Lamp	Wattage	Finish	Bulb
M175/U/MED	175	Clear/coated	E17
MP175/BU-ONLY/MED	175	Clear	E17
M250/U/ET-18	250	Clear	ET18
M400/U/BT-28	400	Clear/coated	BT28
M400/U/ET-18	400	Clear	ET18
MS400/BU-ONLY	400	Clear	BT28
MS400/HOR	400	Clear/coated	BT28
M1000/U/BT-37	1000	Clear	BT37

Application Information

Applications

- Ambient lighting for industrial, commercial and retail installations
- Canopy lighting
- Flood lighting
- Parking lots
- Security lighting

Application Notes

1. M250/U, M400/U, M400/C/U and M1000/U are for use in universal burning positions. These lamps operate in standard HID mogul sockets.
2. M175/U/MED and M175/C/U/MED are for use in universal positions. The MP175/BU-ONLY/MED lamp has shrouded PRO-TECH technology allowing for safe use in open fixtures. These lamps operate in medium sockets.
3. All lamps, with the exception of MP175/BU-ONLY/MED, are designed for use in enclosed fixtures only.
4. MS400/HOR and MS400/C/HOR are for use in the horizontal position only. These lamps operate in position oriented mogul (POM) sockets.
5. MS400/BU-ONLY is for base-up applications only and operates in standard HID mogul sockets.

Ballast Information

COMPACT METALARC lamps operate on the same ANSI ballasts as the standard metal halide lamps they replace.

Specification Data

Fixture Description:	Type
Project/Job:	
SYLVANIA lamp:	
SYLVANIA ballast:	
Notes:	

Ordering Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Code	Avg. Rated Life (hrs.)[1]	Initial Lumens	Mean Lumens	CRI	Lamp CCT	Efficacy (LPW)
64479	M175/U/MED	175	E17	E26Med	M57/E	10,000V	14,400V	9,300V	65	4000K	82
						7,500H	12,800H	9,300H			73
64480	M175/C/U/MED	175	E17	E26Med	M57/E	10,000V	13,000V	8,400V	70	3600K	74
						7,500H	11,080H	8,400H			63
64733	MP175/ BU-ONLY/MED	175	E17	E26Med	M57/O	10,000	14,400	10,800	65	3600K	82
64474	M250/U/ET-18	250	ET18	E39Mogul	M58/E	10,000V	22,000V	17,500V	65	4000K	88
						10,000H	20,000H	13,500H			80
64488	M400/U/BT-28	400	BT28	E39Mogul	M59/E	20,000V	36,000V	25,500V	65	4000K	90
						15,000H	32,000H	20,500H			80
64489	M400/C/U/BT-28	400	BT28	E39Mogul	M59/E	20,000V	36,000V	22,500V	70	3600K	90
						15,000H	32,000H	19,000H			80
64575	M400/U/ET-18	400	ET18	E39Mogul	M59/E	20,000V	36,000V	25,000V	65	4000K	90
						15,000H	33,000H	21,500H			83
64441	MS400/BU-ONLY/BT-28	400	BT28	E39Mogul	M59/E	20,000	42,000	28,000	65	3800K	105
64443	MS400/HOR/BT-28	400	BT28	POM[2]	M59/E	20,000	39,000	27,000	65	4200K	98
64444	MS400/C/HOR/BT-28	400	BT28	POM[2]	M59/E	20,000	36,500	24,000	70	3800K	91
64469	M1000/U/BT-37	1000	BT37	E39Mogul	M47/E	15,000V	110,000V	96,000V	65	3800K	110
						9,000H	100,500H	86,300H			108

Notes:
1. Average Rated Life based on 10 hour per start operation on ANSI ballast.
2. POM= Position Oriented Mogul base

Lamp Comparison

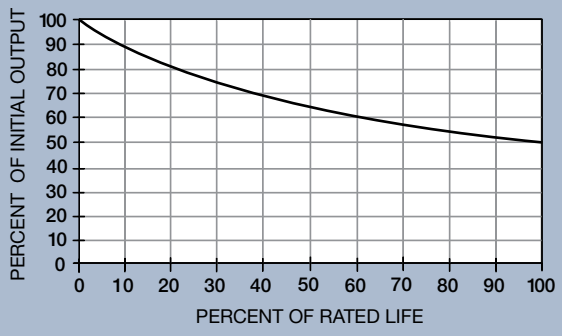
Lamp Type – Mogul	Outer Jacket	L.C.L	M.O.L	Benefits
M400/U/BT-28	BT28	5"	8.3"	Improved fixture efficiency is
M400/U	BT37	7"	11.5"	possible due to smaller lamp size

Ordering Guide

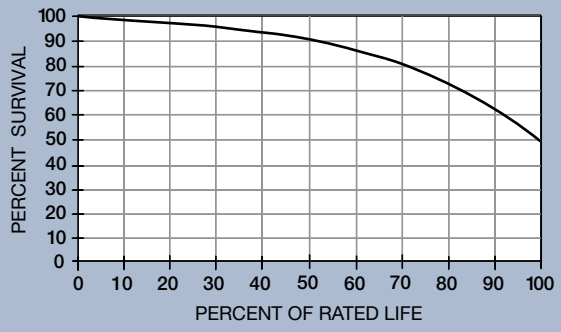
M	400	/	C	/	U	/	BT-28
COMPACT METALARC	Wattage: 400 Watts		Finish: C=Coated __=Clear		Operating position: U=Universal BU-ONLY=Base up HOR=Horizontal		Compact Bulb Size

Technical Information

Typical Lumen Depreciation

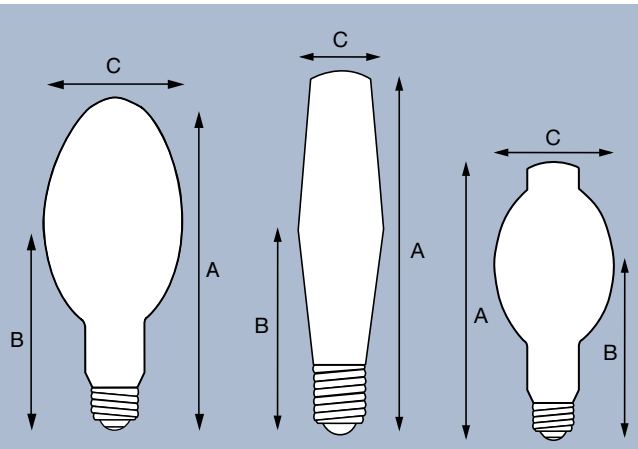


Typical Mortality Curve



Lamp Dimensions

	(A) MOL	(B) LCL	(C) Bulb Diameter
E17	5.43"	3.39"	2.13"
250W ET18	9.75"	5.75"	2.30"
400W ET18	9.75"	6.13"	2.30"
BT28	8.31"	5.00"	3.50"
BT37	11.50"	7.00"	4.60"



Sample Specification

Lamp(s) shall be (a) COMPACT METALARC® M400/U/BT-28 having 36,000 initial lumens. Lamp construction shall include a lead-free, welded base with a maximum base temperature of 250°C.

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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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