

COMPACT METALARC® and COMPACT SUPER METALARC®

Reduced Outer Jacket Metal Halide Lamps



- 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 Availability

	Wattage	Finish	Bulb
MS400/BU-ONLY	400	clear	BT-28
MS400/HOR	400	clear/coated	BT-28
M175/U/MED	175	clear/coated	ED-17
MP175/BU-ONLY/MED	175	clear	ED-17
M250/U/ET-18	250	clear	ET-18
M400/U/BT-28	400	clear/coated	BT-28
M400/U/ET-18	400	clear	ET-18
M1000/U/BT-37	1000	clear	BT-37

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 user to specify the size fixture for various wattage lamps due to the reduced envelope size.

Lamp Comparison

Lamp Type Mogul	Outer Jacket	L.C.L	M.O.L	Benefits
M400/U/BT-28	BT-28	5"	8.3"	Improved fixture efficiency is possible due to smaller lamp size
M400/U	BT-37	7"	11.5"	

Application Information

Applications	Application Notes	Ballast Information
Ambient lighting for industrial, commercial and retail installations Parking lots Canopy lighting Security lighting Flood lighting	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. 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.	Compact METALARC lamps operate on the same ANSI ballasts as the standard metal halide lamps they replace. As of March 2001 production, the M1000/U/BT37 lamp may be operated on a M141 pulse start ballast with performance as published.
	All lamps with the exception of MP175/BU-ONLY/MED are designed for use in enclosed fixtures only. MS400/HOR and MS400/C/HOR are for use in the horizontal position only. These lamps operate in position oriented mogul (POM) sockets. MS400/BU-ONLY is for base-up applications only and operates in standard HID mogul sockets.	

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.

Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	Finish	Avg. Rated Life (hrs.) ¹	Initial Lumens	Mean Lumens	CRI	CCT
64479	M175/U/MED	175	ED17	Med.	Clear	10,000V 7500H	14,400V 12,800H	9300V 9300H	65	4000K
64480	M175/C/U/MED	175	ED17	Med.	Coated	10,000V 7500H	13,000V 11,080H	8400V 8400H	70	3600K
64733	MP175/ BU-ONLY/MED	175	ED17	Med.	Clear	10,000	14,400	10,800	65	3600K
64474	M250/U/ET-18	250	ET18	Mogul	Clear	10,000V 10,000H	22,000V 20,000H	17,500V 13,500H	65	4000K
64488	M400/U/BT-28	400	BT28	Mogul	Clear	20,000V 15,000H	36,000V 32,000H	25,500V 20,500H	65	4000K
64489	M400/C/U/BT-28	400	BT28	Mogul	Coated	20,000V 15,000H	36,000V 32,000H	25,000V 20,500H	70	3600K
64575	M400/U/ET-18	400	ET18	Mogul	Clear	20,000V 15,000H	36,000V 33,000H	25,000V 21,500H	65	4000K
64469	M1000/U/BT-37 ³	1000	BT37	Mogul	Clear	15,000V 9000H	110,000V 107,800H	96,000V 86,300H	65	3800K
64441	MS400 /BU-ONLY/BT-28	400	BT28	Mogul	Clear	20,000	42,000	28,000	65	3800K
64443	MS400/HOR /BT-28	400	BT28	POM ²	Clear	20,000	39,000	27,000	65	4200 K
64444	MS400/C/HOR /BT-28	400	BT28	POM ²	Coated	20,000	36,500	24,000	70	3800 K

Notes:

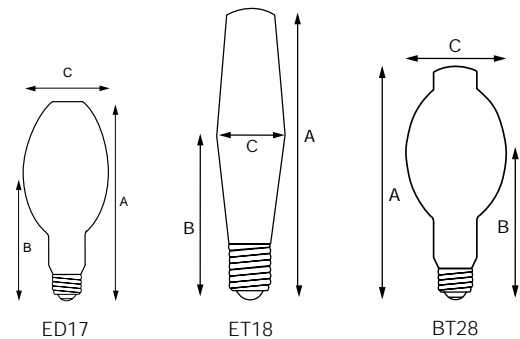
- 1 Average Rated Life based on 10 hour per start operation on ANSI ballast.
2. POM= Position Oriented Mogul base
3. As of March 2001 production, lamps may be operated on a M141 pulse start ballast with performance as published above

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

Dimensions

Bulb Shape	(A) MOL	(B) LCL	(C) Bulb Diameter
ED17	5.06"	3.41"	2.10"
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"



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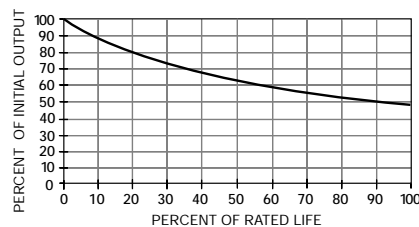
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Technical Information

Typical Lumen Depreciation



Typical Mortality Curve

