



by



High Output Metal Halide EYE Multi-Metal™ Pulse Start

Choose EYE Pulse Start... when more is less!

- EYE Pulse Start lamps offer more initial lumens
- More mean lumens, more life... less energy consumption

More lumens

When compared to traditional Metal Halide lamps, EYE Pulse Start lamps deliver:

- Up to 17 % more initial lumens
- Up to 38 % more mean lumens
- Up to 17 % higher efficacy

More useable life

- Excellent lumen maintenance results in longer periods between re-lamp cycles
- EYE's Multi-Metal technology minimizes color shift, maintaining attractive, consistent lighting for any application

Reduce Energy and maintain current light levels

- Choose a 350 W Pulse Start in place of a 400 W traditional metal halide lamp and save 50 W

Reduced warm-up time

- Reduced time for warm-up and hot re-strike increases safety and reduces downtime for production or sales activities

2005 National Electric Code

- EYE Protected Metal Halide Pulse Start lamps meet the 2005 National Electric Code requirements for operation in Open Fixtures



APPLICATIONS

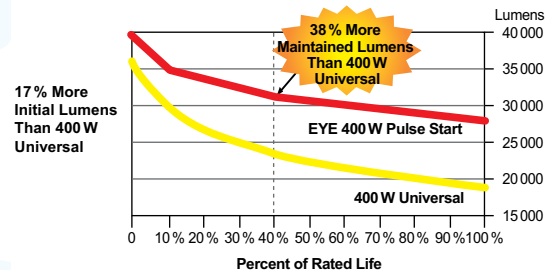
- Sports lighting
- Gas station canopy
- Manufacturing
- Architectural
- Retail
- Roadway



The Metal Halide White Light Choice

- Metal Halide white light creates an atmosphere of safety and beauty, that attracts attention and increases visual acuity; improving night time vision
- Pulse Start Metal Halide lamp performance is not affected by large variations in ambient temperature. The light from a Metal Halide lamp provides the equivalent illumination of multiple linear lamps.

**Lumen Comparison
EYE Pulse Start to Universal Metal Halide**



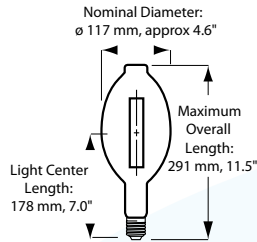
Shrouded Arc Tube Series

Order Code	Description	Base	Bulb	Watts	ANSI Code	CRI	Colour Temp. (K)	Avg. Life (Hours)	Initial Lumens	Mean Lumens	Burn Position	Fix. Req.	Case Qty.
15076	MP50/U/3K	E17 Clear	Medium	50	M110/O	70	3000	15000 V 10000 h	3450	2000	U	O	20
15085	MPF50/U/3K	E17 Coated	Medium	50	M110/O	70	2900	15000 V 10000 h	3200	1800	U	O	20
15080	MP70/U/3K	E17 Clear	Medium	70	M98/O	75	3000	15000 V 10000 h	5200	3400	U	O	20
58253	MPF70/U/3K	E17 Coated	Medium	70	M98/O	75	2900	15000 V 10000 h	4800	3200	U	O	20
15073	MP100/U/3K	E17 Clear	Medium	100	M90/O	75	3000	15000 V 10000 h	8500	5600	U	O	20
58254	MPF100/U/3K	E17 Coated	Medium	100	M90/O	75	2900	15000 V 10000 h	7900	5800	U	O	20
15074	MP150/U/3K	E17 Clear	Medium	150	M102/O	75	3000	15000 V 10000 h	13000	10000	U	O	20
58255	MPF150/U/3K	E17 Coated	Medium	150	M102/O	75	2900	15000 V 10000 h	12000	9000	U	O	20

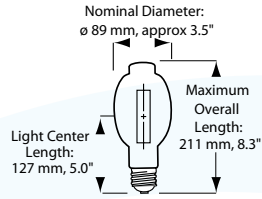
High Output Metal Halide EYE Multi-Metal™ Pulse Start



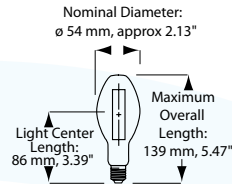
by



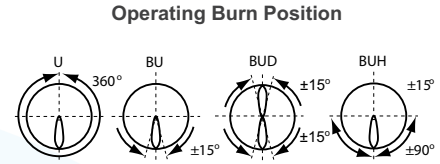
BT37



BT28



ED17 / E17



Operating Burn Position

Order Code	Description	Base	Base	Watts	ANSI Code	CRI	Colour Temp. (K)	Avg. Life (Hours)	Initial Lumens	Mean Lumens	Burn Position	Fix. Req.	Case Qty.
58231	M250/BU/PS	BT28 Clear	E39	250	M153/E	65	4200	20000	23000	17000	BU	E	12
58233	MP250/BU/PS	ED28 Clear	EX39	250	M138, M153/O	65	4000	15000	23800	19000	BU	O	12
58235	MF250/BU/PS	BT28 Coated	E39	250	M153/E	70	3600	20000	21500	15500	BU	E	12
58236	MPF250/BU/PS	ED28 Coated	EX39	250	M138, M153/O	70	3700	15000	22600	17600	BU	O	12
58237	M320/BU-HOR/PS/ BT28	BT28 Clear	E39	320	M154/E	65	4300	20000V 15000h	32000V 30000h	19700V 21000h	BU-HOR	E	12
58239	MP320/BU/PS/BT28	BT28 Clear	EX39	320	M154/O	65	3800	20000	28600	21000	BU	O	6
58242	MF320/BU-HOR/PS	BT28 Coated	E39	320	M154/E	70	3900	20000V 15000h	30000V 28000h	19700V 18400h	BU-HOR	E	12
58243	MPF320/BU/PS	BT28 Coated	EX39	320	M154/O	70	3600	20000	27700	19000	BU	O	6
58244	MP350/BU/PS/BT37	BT37 Clear	EX39	350	M131/O	65	3700	20000	33000	24500	BU	O	6
58245	MPF350/BU/PS/ BT37	BT37 Coated	EX39	350	M131/O	70	3500	20000	32000	23000	BU	O	6
58246	M400/BU/PS/BT37	BT37 Clear	E39	400	M155/S	65	4000	30000 ¹ 20000	42000	31000	BU	S	6
58248	MF400/BU/PS	BT37 Coated	E39	400	M155/S	70	3600	20000	42000	29000	BU	S	6
58250	MPF400/BU/PS	ED37 Coated	EX39	400	M135, M155/O	70	3700	20000	39000	31000	BUD	O	6
58251	MP400/BU/PS	ED37 Clear	EX39	400	M135, M155/O	68	4000	20000	41000	33000	BUD	O	6
58175	M750/BU-HOR/PS/ BT37	BT37 Clear	E39	750	M149/E	65	4000	16000V 12000h	78000V 68000h	67000V 56000h	BU-HOR	E	6
58252	M1000/BU/PS/BT37	BT37 Clear	E39	1000	M141/E	65	3800	15000V 9000h	110000V 107800h	96000V 86300h	U	E	6

Medium Base

Order Code	Description	Bulb	Base	Watts	ANSI Code	CRI	Colour Temp. (K)	Avg. Life (Hours)	Initial Lumens	Mean Lumens	Burn Position	Fix. Req.	Case Qty.
14930	M100X/U/MED	ED17 Clear	Medium	100	M90/E	65	4000	15000V 11250h	9000V 8100h	6800V 5900h	U	E	12
14933	MF100X/U/MED	ED17 Coated	Medium	100	M90/E	70	3700	15000V 11250h	8500V 7700h	6200V 5500h	U	E	12

¹ Rated average life at 120 hours per start

Fixture Requirements:

E= Enclosed fixture required, O= Open fixture permissible, S= Open fixture if the operating position is base up $\pm 15^\circ$, U= Universal

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. This lamp complies with U.S. Federal Standard 21 CFR 1040.30