

# WLS LIGHTING SYSTEMS

Consider the Impact!

P.O. BOX 100519 ■ FORT WORTH, TEXAS 76185

800-633-8711 ■ WWW.WLSLIGHTING.COM

# Natural White® Lamps

## Superior Color Rendering

What could be more natural than sunlight? Our Natural White® pulse start metal halide systems. With *Natural White*, blues are true blue, reds are more vibrant, whites are whiter, and skin tones appear as they do under sunlight. *Natural White* lamps, with a color temperature of 5000K and a CRI of 90+, bring daylight indoors!

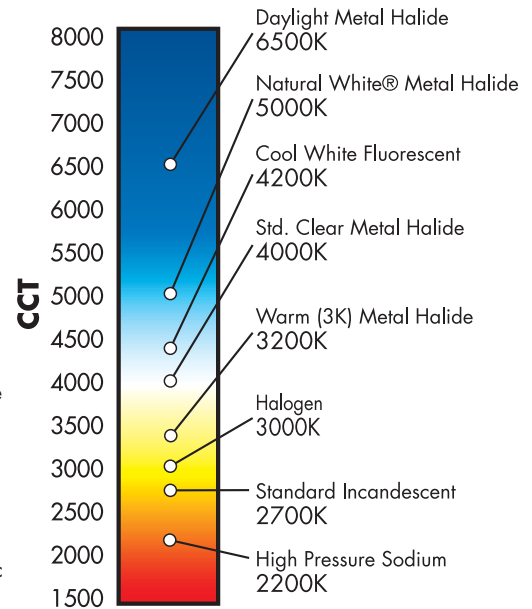
When purchased as a Lamp and Ballast System, we are able to provide a five year ballast/two year lamp warranty!

## More Choices

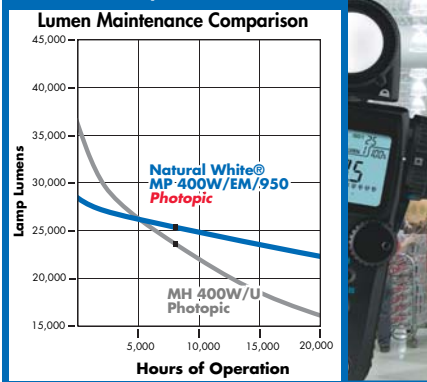
Think beyond standard metal halide and realize better performance with our high CRI and high CCT lamps coupled with the energy savings of an electronic ballast. Now *Natural White 950* Series lamps provide additional choices in color temperature and CRI. With more choices, WLS has the lighting package to fit your specific application.

## Longer Life

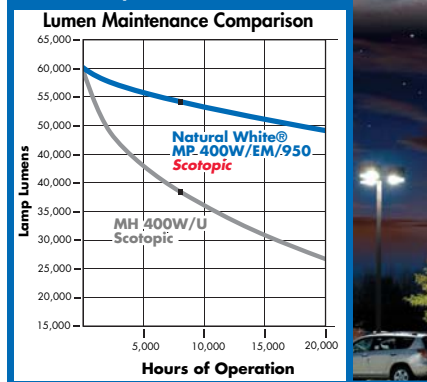
- Fewer failures due to better lamp design and construction
- With a life rating of 20,000++ hours, 80% of our e-Lamp® products will still be operating at end of rated life, a 60% increase in lamp survival compared to standard metal halide lamps (50% survival)
- Superior color rendering - objects appear as they would outdoors
- Work spaces look brighter; Tasks, such as reading, become easier to perform
- Excellent color uniformity and stability over life of lamp due to tipless, formed body arc tube
- Don't be left in the dark: 50% faster warm-up time than ceramic or standard metal halide systems
- Hot restart in less than half the time of ceramic metal halide lamps



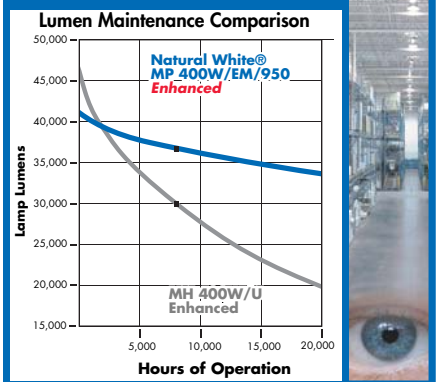
## Conventionally Measured (Photopic Lumens)



## Nighttime: Visual Brightness (Scotopic Lumens) (S/P)<sup>1</sup>



## Daytime: Visual Brightness (Enhanced Lumens) (S/P)<sup>1,5</sup>



# Natural White® Lamps

HIGH CRI AND HIGH CCT PULSE START METAL HALIDE LIGHTING SYSTEMS



## Applications

- Retail
- Car dealership lots
- Grocery stores
- Daylight harvesting applications
- Parking lots

## ELECTRONIC Ballasted Open Rated Lamps ANSI Type-O featuring UV Shield®

Lamp Watts Description	Product No.	Photopic Initial Lumens	Scotopic Nighttime <sup>1</sup> Initial Lumens	Enhanced Daytime <sup>2</sup> Initial Lumens	Avg. Life Hours <sup>3</sup>	CCT (K)	Warm-Up (Min)	Restrike (Min)	CRI	Finish	Oper. Pos.	Case Fig.	System Qty	Watts
250 MPSE 250W/BU/UVS/950	95047*	17500	37000	25500	20000++	5000	2-3	5-8	90+	Clear	BU±15°	A	12	263
290 MPSE 290W/BU/ED37/UVS/950	95005*	22000	46000	32000	20000++	5000	2-3	5-8	90+	Clear	BU±15°	B	6	312
320 MPSE 320W/BU/ED37/UVS/950	28712	24000	50500	34500	20000++	5000	2-3	5-8	90+	Clear	BU±15°	B	6	342
320 MPSE 320W/C/BU/ED37/UVS/950	35698	22500	47500	33000	20000++	5000	2-3	5-8	90+	Coated	BU±15°	B	6	342
350 MPSE 350W/BU/UVS/950	62584	26000	55000	38000	20000++	5000	2-3	5-8	90+	Clear	BU±15°	B	6	375
350 MPSE 350W/C/BU/UVS/950	71035	25000	52000	36000	20000++	5000	2-3	5-8	90+	Coated	BU±15°	B	6	375
400 MPSE 400W/BU/UVS/950	71564	30500	64000	44000	20000++	5000	2-3	5-8	90+	Clear	BU±15°	B	6	430
400 MPSE 400W/C/BU/UVS/950	95103	29000	60500	41500	20000++	5000	2-3	5-8	90+	Coated	BU±15°	B	6	430
430 MPSE 450W/BU/UVS/950	95011*	34500	72000	50000	20000++	5000	2-3	5-8	90+	Clear	BU±15°	B	6	465
430 MPSE 450W/C/BU/UVS/950	95012*	32500	68500	47500	20000++	5000	2-3	5-8	90+	Clear	BU±15°	B	6	465

## MAGNETIC Ballasted Open Rated Lamps ANSI Type-O

Lamp Watts Description	Product No.	ANSI Code	Photopic Initial Lumens	Scotopic Nighttime <sup>1</sup> Initial Lumens	Enhanced Daytime <sup>2</sup> Initial Lumens	Avg. Life Hours <sup>4</sup>	CCT (K)	Warm-Up (Min)	Restrike (Min)	CRI	Finish	Oper. Pos.	Case Fig.	Qty
775 MP 775W/BU/BT37/PS/950	24983	M181/O	66000	138500	95500	20000+	5000	3-5	8-12	90+	Clear	BU±15°	C	6

## Energy Saving RETROFIT Open Rated Lamps ANSI Type-O featuring UV Shield®

Lamp Watts Description	Product No.	ANSI Code	Photopic Initial Lumens	Scotopic Nighttime <sup>1</sup> Initial Lumens	Enhanced Daytime <sup>2</sup> Initial Lumens	Avg. Life Hours <sup>4</sup>	CCT (K)	CRI	Finish	Operating Pos.	Case Fig.	Qty	Replaces	Watts Saved
250 MP 250W/BU/UVS/PS/EM/950	19523	M153/O	16500	34500	24000	20000+	5000	90+	Clear	BU±15°	A	12	250W/BU/ED28/PS	15
320 MP 320W/BU/ED28/UVS/PS/EM/950	98530	M154/O	22500	47000	32500	20000+	5000	90+	Clear	BU±15°	A	12	320W/BU/ED28/PS	20
320 MP 320W/BU/ED37/UVS/PS/EM/950	98520	M154/O	22500	47000	32500	20000+	5000	90+	Clear	BU±15°	B	6	320W/BU/ED37/PS	20
350 MP 350W/BU/ED28/UVS/PS/EM/950	33149	M131/O	24000	50500	35000	20000+	5000	90+	Clear	BU±15°	A	12	350W/BU/ED28/PS	25
350 MP 350W/BU/UVS/PS/EM/950	51628	M131/O	24000	50500	35000	20000+	5000	90+	Clear	BU±15°	B	6	350W/BU/ED37/PS	25
350 MP 350W/C/BU/UVS/PS/EM/950	38197	M131/O	22500	47500	33000	20000+	5000	90+	Coated	BU±15°	B	6	350W/C/BU/ED37/PS	25
400 MP 400W/BU/ED28/UVS/PS/EM/950	72315	M155/O	28500	60000	41000	20000+	5000	90+	Clear	BU±15°	A	12	400W/BU/ED28/PS	25
400 MP 400W/BU/UVS/PS/EM/950	57129	M155/O	28500	60000	41000	20000+	5000	90+	Clear	BU±15°	B	6	400W/BU/ED37/PS	25
400 MP 400W/C/BU/UVS/PS/EM/950	89410	M155/O	27000	56500	39000	20000+	5000	90+	Coated	BU±15°	B	6	400W/C/BU/ED37/PS	25

Notes: All lamps have a light loss factor (LLF) at 8000 hours of 0.9

1 Scotopic Nighttime = Visual brightness ratio of (S/P)<sup>1</sup> = 2.1

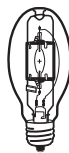
2 Enhanced Daytime = Visual brightness ratio of (S/P)<sup>0.5</sup> = 1.45

3 A life rating of 20,000++ hours means that at least 80% of the lamps initially installed will still be operating after 20,000 hours.

4 A life rating of 20,000+ hours means that at least 70% of the lamps initially installed will still be operating after 20,000 hours.

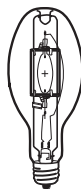
\* Product is in development, please contact manufacturer for product availability

**A**  
**ED28**



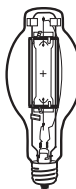
Dia. = 3 1/2" (90mm)  
MOL = 8 5/16" (211mm)  
LCL = 5" (127mm)  
Base = EX39

**B**  
**ED37**



Dia. = 4 5/8" (120mm)  
MOL = 11 1/2" (292mm)  
LCL = 7" (178mm)  
Base = EX39

**C**  
**BT37**



Dia. = 4 5/8" (120mm)  
MOL = 11 1/2" (292mm)  
LCL = 7" (178mm)  
Base = EX39



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