

# High Intensity Discharge Lamps

## Product Information

### GE ConstantColor® CMH® and CMH® Ultra Ceramic Metal Halide Lamps (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%–20% more)
- Lamp operates at high efficacy—up to 95 lumens per watt
- Many are universal burn—may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for “people places”

### GE CMH® Chromafit™ Ceramic Metal Halide Lamps (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn—may be operated in any position
- Uses: Area lighting, industrial and “people places”
- Enclosed glass fixtures only

### GE PulseArc® Medium Based Metal Halide Lamps (/MED models) (pg 3-12)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy—more than 3 times the lumens per watt of incandescent
- Long life—up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways; retail, office, commercial

### GE PulseArc® Multi-Vapor® Metal Halide Lamps (/PA Models) (pgs 3-12 to 3-13)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light—400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life—400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike—less than 4 minutes versus 10-15 minutes for typical metal halide lamps

### GE Multi-Vapor® Metal Halide Lamps (pg 3-13)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy—more efficient than incandescent, mercury and most fluorescent sources
- Long life—10,000-20,000 hours for most types

- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways; retail, commercial, industrial

### GE High Output Multi-Vapor® Lamps (pgs 3-13 to 3-14)

- More light—optimized for higher light output in horizontal, vertical base-up and base-down burn applications
  - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
  - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life—horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

### GE Protected High Output Multi-Vapor® Lamps (/O) (pgs 3-14 to 3-15)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the “MPR” prefix in the Lamp Description indicates lamps are suitable for open fixture applications

### GE ChromaFit™ Multi-Vapor® Lamps (/R) (pg 3-15)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and “people places”

### GE Lucalox® High Pressure Sodium Lamps (pg 3-15)

- Very high efficacy/low operating cost
- Excellent lumen maintenance—over 90% @ 50% of life
- Very long life—24,000+ hours
- Universal burn—can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

### GE Ecolux® High Pressure Sodium Lamps (/ECO) (pgs 3-15 to 3-16)

- Lead-free base. Passes TCLP, which can lower disposal costs.

### GE Standby Longlife Lucalox® and Ecolux® Lamps (/SBY) (pgs 3-16 to 3-17)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets
- Ecolux® lamps use lead-free bases. Passes TCLP, which can lower disposal costs.

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/High Color Rendering	Footnotes	Warning and Caution Notices
<b>PulseArc® Multi-Vapor® Metal Halide Lamps (continued)</b>																				
ED28	E39	E	VBU	400	8.25	5.00	46271	MVR400/VBUED28PA	M135/M155	12		20000	44000	28500	4000	65	Clear		43,49	116
		E	VBU	400	8.25	5.00	46272	MVR400CVBUED28PA	M135/M155	12		20000	42000	27500	3700	70	Coated Compact		43,49	116
		E	HOR	400	8.25	5.00	72885	MVR400/HOR/ED28/PA	M135/M155	12		20000	38000	21400	4100	65	Clear Compact		43,49	117
<b>750 Watts</b>																				
BT37	E39	E	VBU	750	11.50	7.00	27219	MVR750/VBU/PA	M149	6		16000	82000	60000	4000	65	Clear		49	117
		E	VBU	750	11.50	7.00	45560	MVR750/C/VBU/PA	M149	6		16000	72000	54000	3700	70	Coated		49	117
<b>1000 Watts</b>																				
BT37	E39	E	U	1000	11.50	7.00	10389	MVR1000U/BT37/PA	M141	6		9000H/12000V	105000H/115000V	82000H/90000V	3900	65	Clear		43,49	116
<b>Multi-Vapor® Metal Halide Lamps</b>																				
<b>150 Watts</b>																				
ED28	E39	E	U	150	8.25	5.00	13481	MVR150U/UWM	M57/M107	12		7500H/10000V	11500H/13500V	7200H/8500V	4000	65	Clear, Watt-Miser®	↔		117
		E	U	150	8.25	5.00	13490	MVR150C/UWM	M57/M107	12		7500H/10000V	10900H/12800V	6900H/8000V	3700	70	Coated, Watt-Miser®	↔		117
<b>175 Watts</b>																				
BD17	E26	E	U	175	5.75	3.43	18902	MVR175U/MED	M57	6		6000H/10000V	11700H/14000V	7400H/8800V	4000	60	Clear			117
		E	U	175	5.75	3.43	26432	MVR175U/MED/CP	M57	4		6000H/10000V	11700H/13600V	7400H/8800V	4000	65	Clear, Consumer Pack			117
		E	U	175	5.75	3.43	19976	MVR175C/U/MED	M57	6		6000H/10000V	11900H/12900V	7900H/8400V	3900	60	Coated			117
ED28	E39	E	U	175	8.25	5.00	47760	MVR175U	M57	12		6000H/10000V	11700H/13600V	7900H/8800V	4000	55	Clear			117
		E	U	175	8.25	5.00	26433	MVR175U/CP	M57	4		6000H/10000V	11700H/13600V	7900H/8800V	4000	65	Clear, Consumer Pack			117
		E	U	175	8.25	5.00	47761	MVR175C/U	M57	12		6000H/10000V	11900H/12900V	7900H/8400V	3900	55	Coated			117
		E	U	175	8.25	5.00	17634	MVR175/SP30/U	M57	12		6000H/10000V	10300H/12000V	6500H/7600V	3000	70	RE730 Phosphor Coating			117
PAR38	E26	E	U	175	5.62		25218	MVR175/PAR38/FL1	M57	6	6500	7500	12000		3800	65	Clear, One-Piece PAR			117
<b>250 Watts</b>																				
ED28	E39	E	U	250	8.25	5.00	42729	MVR250U	M58	12		6000H/10000V	19100H/20800V	12400H/13500V	4200	60	Clear			117
		E	U	250	8.25	5.00	26434	MVR250U/CP	M58	4		6000H/10000V	19100H/20800V	12400H/13500V	4200	65	Clear, Consumer Pack			117
		E	U	250	8.25	5.00	42731	MVR250C/U	M58	12		6000H/10000V	18200H/19800V	11600H/13000V	3900	60	Coated			117
		E	U	250	8.25	5.00	17633	MVR250/SP30/U	M58	12		6000H/10000V	16600H/18000V	10600H/11500V	3000	70	RE730 Phosphor Coating			117
<b>360 Watts</b>																				
ED37	E39	S	U	360	11.50	7.00	13495	MVR360U/WM/HO	M59/M165	6		20000	36000	20000	4300	60	Clear, Watt-Miser®	↔	32,49	121
<b>400 Watts</b>																				
ED37	E39	S	U	400	11.50	7.00	43828	MVR400U	M59	6		15000H/20000V	33100H/38000V	22100H/23500V	4000	60	Clear		49	121
		S	U	400	11.50	7.00	26435	MVR400U/CP	M59	4		15000H/20000V	33100H/36000V	22100H/23500V	4000	65	Clear, Consumer Pack		49	121
		S	U	400	11.50	7.00	43829	MVR400C/U	M59	6		15000H/20000V	32200H/36000V	19300H/23000V	3700	60	Coated		49	121
		S	U	400	11.50	7.00	17632	MVR400/SP30/U	M59	6		15000H/20000V	28500H/31000V	17100H/18600V	3000	70	RE730 Phosphor Coating		49	121
ED28	E39	E	U	400	8.25	5.00	18904	MVR400U/ED28	M59	12		15000H/20000V	33100H/38000V	22100H/23500V	4000	60	Clear, Compact		49	117
		E	U	400	8.25	5.00	19979	MVR400C/U/ED28	M59	12		15000H/20000V	32200H/36000V	19300H/23000V	4000	60	Coated, Compact		49	117
<b>1000 Watts</b>																				
BT56	E39	S	U	1000	15.37	9.50	41826	MVR1000U	M47	6		11000H/15000V	100280H/108000V	79000H/86000V	4000	65	Clear		49	121
		S	U	1000	15.37	9.50	41827	MVR1000C/U	M47	6		11000H/15000V	96600H/105000V	73000H/80000V	3700	65	Coated		49	121
BT37	E39	E	U	1000	11.50	7.00	18205	MVR1000U/BT37	M47	6		9000H/12000V	105000H/115000V	82000H/90000V	3700	65	Clear, Compact		49	121
<b>High Output and XHO Multi-Vapor® Metal Halide Lamps</b>																				
<b>175 Watts</b>																				
ED28	PosMog	E	HOR	175	8.25	5.00	18105	MVR175C/HOR	M57	12		10000	14100	7500	3500	70	Coated, Position Oriented Socket			117