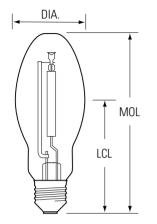
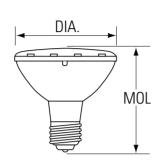
CONSTANTCOLOR® CMH® METAL HALIDE LAMPS
PAR
Elliptical 3-9 Single-Ended G12 3-9 Double-Ended TD 3-9
Mini's
Mini's
PULSEARC® MULTI-VAPOR® METAL HALIDE LAMPS 3-10
MULTI-VAPOR® METAL HALIDE LAMPS 3-12
HIGH OUTPUT AND XHO MULTI-VAPOR® METAL HALIDE LAMPS
SPORTSLIGHTING
PROTECTED MULTI-VAPOR® METAL HALIDE LAMPS 3-14
CHROMAFIT™ MULTI-VAPOR® METAL HALIDE LAMPS (HPS RETROFIT LAMPS)
I-LINE MULTI-VAPOR® METAL HALIDE LAMPS (MERCURY RETROFIT LAMPS)
SAF-T-GARD® SELF-EXTINGUISHING MULTI-VAPOR® LAMPS
ARCSTREAM® METAL HALIDE LAMPS 3-16
LUCALOX® HIGH PRESSURE SODIUM LAMPS 3-16
STANDBY LONGLIFE LUCALOX® LAMPS
ECOLUX® NC NON-CYCLING HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT)
ECOLUX® HIGH PRESSURE SODIUM LAMPS (TCLP COMPLIANT)
DELUXE LUCALOX® HIGH PRESSURE SODIUM LAMPS 3-19
E-Z LUX® HIGH PRESSURE SODIUM LAMPS (MERCURY RETROFIT)
SOX LOW PRESSURE SODIUM LAMPS 3-19
MERCURY LAMPS 3-19
SAF-T-GARD® MERCURY LAMPS 3-20
E-Z MERC® SELF-BALLASTED LAMPS (INCANDESCENT RETROFIT)
EXPORT LAMPS
Metal Halide
E-Z Lux® Lucalox® High Pressure Sodium (Mercury Retrofit) 3-22
Mercury



BULB IDENTIFICATION





DIA: Diameter of bulb at widest point.

MOL: Maximum Overall Length including base or pins.

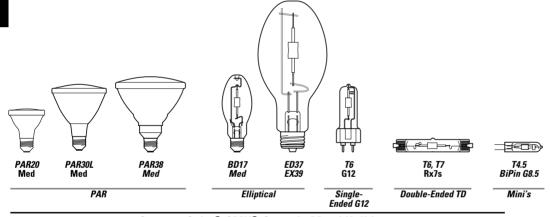
LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale.

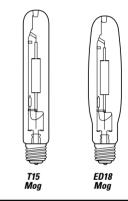
Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

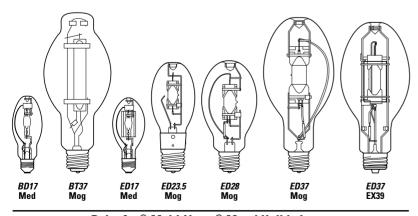
LAMP LOCATOR



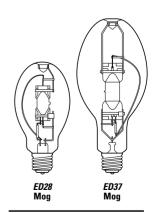
ConstantColor® CMH® Ceramic Metal Halide



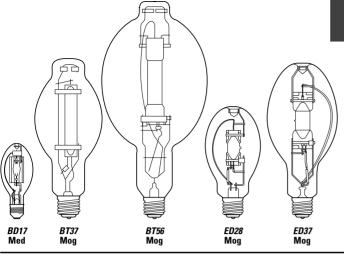
CMH® Chromafit™ Ceramic Metal Halide (HPS Retrofit Lamps)



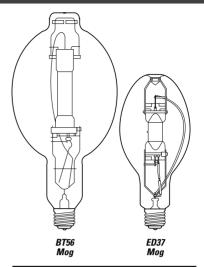
PulseArc® Multi-Vapor® Metal Halide Lamps



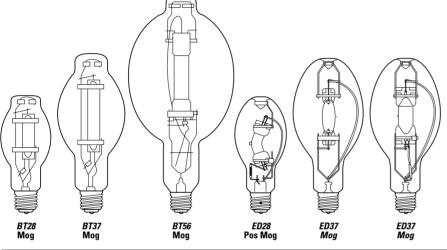
Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)



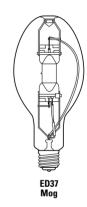
Multi-Vapor® Metal Halide Lamps



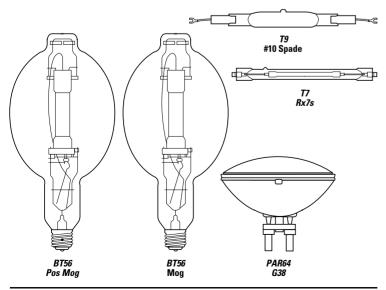
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps)



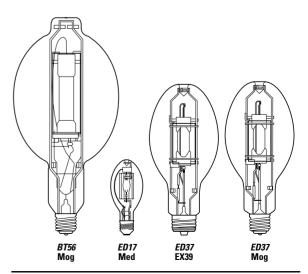
High Output and XHO Multi-Vapor® Metal Halide Lamps



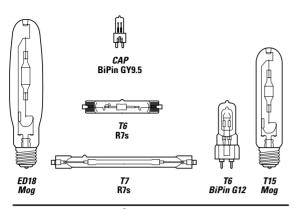
Saf-T-Gard® Self-Extinguishing Multi-Vapor® Lamps



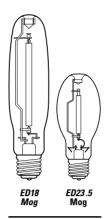
Sportslighting



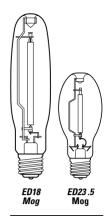
Protected Multi-Vapor® Metal Halide Lamps



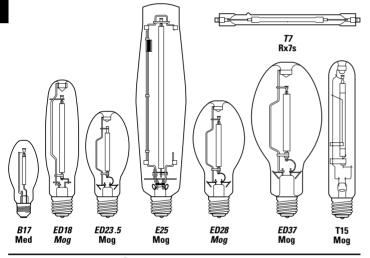
Arcstream® Metal Halide Lamps



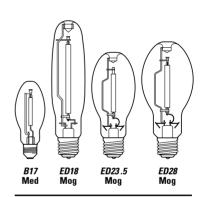
Ecolux® NC Non-Cycling High Pressure Sodium Lamps (TCLP Compliant)



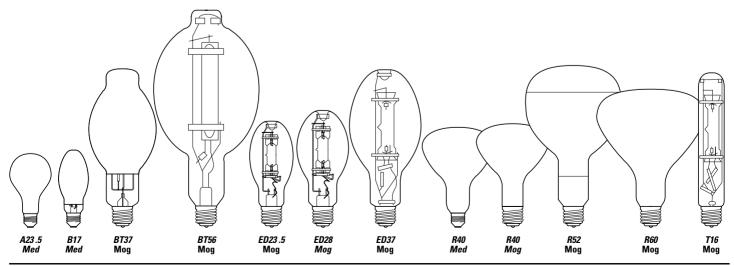
Ecolux® High Pressure Sodium Lamps (TCLP Compliant)



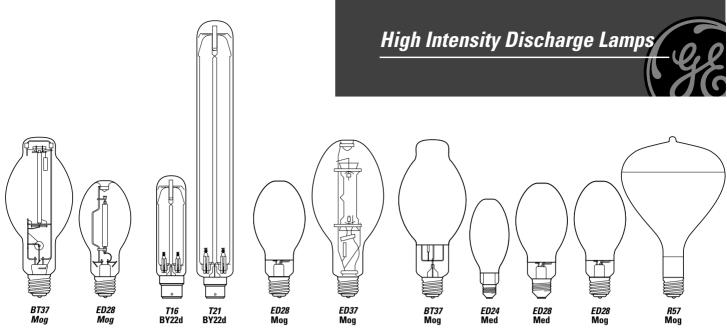
Lucalox® High Pressure Sodium Lamps



Deluxe Lucalox® High Pressure Sodium Lamps



Mercury Lamps



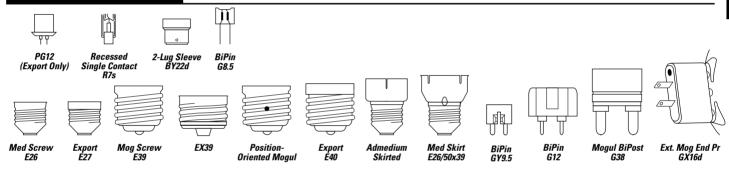
E-Z Lux® High Pressure Sodium Lamps (Mercury Retrofit)

SOX Low Pressure Sodium Lamps

Saf-T-Gard® Mercury Lamps

E-Z Merc® Self-Ballasted Lamps (Incandescent Retrofit)

BASE IDENTIFICATION



INTRODUCTION

GE HID lamps provide the following benefits:

High Efficacy/Low Operating Cost.

HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

Long Life.

Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

Compact Size.

An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart below shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated average life. Efficiency is measured in lumens per watt (LPW). Rated average life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

SUGGESTED COLOR APPLICATIONS FOR HID LAMPS

CMH[®]: Stores, people places, display, accent.

MVR: Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

MVR/C: Same as MVR – warmer color – diffuse coating reduces glare.

Typical Lamp Characterist	ics	
Lamp Type	Typical LPW	Rated Avg. Life (in hours)
Incandescent	5 - 22	750 - 2000
Halogen	12 - 36	2000 - 6000
Compact Fluorescent	27 - 80	9000 - 20,000
Fluorescent	75 -100	12,000 - 24,000 +
Mercury	50 - 60	12,000 - 24,000 +
ConstantColor® CMH®	80 - 95	7,500 - 20,000
Multi-Vapor® Metal Halide	80 -115	10,000 - 20,000
Lucalox® High Pressure Sodium	90 -140	10,000 - 40,000

MVR/SP30: Same as MVR – warmer than MVR or MVR/C – matches SP30 fluorescent.

MXR: Warm color (3200K) - good match for halogen.

LU: Street lighting, parking areas, industrial, floodlighting, security, CCTV

LU/DX: Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

Deluxe (DX) Mercury: Stores, public spaces – Metal Halide lamps however, are preferred.

Clear Mercury: Landscape lighting, specialized floodlighting such as green copper roofs.

PRODUCT INFORMATION

GE CONSTANTCOLOR® CMH® CERAMIC METAL HALIDE LAMPS (pgs 3-9 to 3-10)

- 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 than standard metal halide)
- Lamp operates at high efficacy up to 95 lumens per watt
- Many are universal burn may be operated in any position
- Easy retrofit since lamp operates on standard metal halide ballasts
- 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 3-10)

- 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"

GE PULSEARC® MEDIUM BASED METAL HALIDE LAMPS (/MED MODELS) (pgs 3-10 to 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 3-11 to 3-12)

- 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 (pgs 3-12 to 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 STAYBRIGHT® (/STB) LAMPS (pg 3-13)

- Brighter longer has 32% higher mean lumens while running on standard metal halide ballasts
- Uses: Any application where fixed-orientation lamps can be used.
 Gas stations, sports lighting, billboards, retail, office, roadway, parking garages, floodlights, sign lighting.

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 I-LINE MULTI-VAPOR® LAMPS (pgs 3-15 to 3-16)

- Convert mercury sockets to crisp, white metal halide light
- More light, better color, energy cost savings for mercury users
- 40%-100% more light than existing mercury lamps
- Operate on standard CW and CWA mercury ballasts and auxiliary equipment

PRODUCT INFORMATION (CONTINUED)

GE SAF-T-GARD® MULTI-VAPOR LAMPS (MVT) (pg 3-16)

- Special self-extinguishing feature prevents exposure to UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21CFR1040.30
- Saf-T-Gard[®] I-Line lamps convert mercury sockets to crisp, white metal halide light
- Saf-T-Gard® I-Line lamps operate on standard mercury ballasts and auxiliary equipment
- Uses: Industrial, commercial, gymnasiums, sports complexes, especially
 where open fixtures are used and risk of outer bulb breakage is possible

GE ARCSTREAM® METAL HALIDE LAMPS (pg 3-16)

- · Compact size, white light, excellent color
- Precise optical control delivers a concentrated beam of light right where it's needed
- Variety of color temperatures (3,000K 6,000K)
- PAR64: ideal for long-range projection and sports lighting applications
- Uses: Ideal for retail and commercial display lighting, floodlighting, accent/highlighting

GE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pgs 3-16 to 3-17)

- Very high efficacy/low operating cost
- Superior 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 DOUBLE-ENDED LUCALOX® LAMPS (/TD) (pg 3-17)

- Compact tubular design fits compact fixtures for excellent optical control
- High efficacy, lumen maintenance and long life of standard Lucalox[®] HPS

GE STANDBY LONGLIFE LUCALOX® LAMPS (/SBY) (pgs 3-17 to 3-18)

- 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

GE ECOLUX® NC "NON-CYCLING" HIGH PRESSURE SODIUM LAMPS (/ECO/NC) (pg 3-18)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost

- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life 24,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

GE ECOLUX® HIGH PRESSURE SODIUM LAMPS (/ECO) (pgs 3-18 to 3-19)

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

GE DELUXE LUCALOX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- High efficacy, lumen maintenance and long life of standard Lucalox® HPS
- High color rendering (65-70CRI), much better than standard HPS
- Blends well with incandescent and standard HPS sources
- · Operates on standard HPS ballasts and auxiliary equipment
- Uses: Storage rooms, industrial facilities, offices, gymnasiums, malls, parks, building floodlighting

GE E-Z LUX® HIGH PRESSURE SODIUM LAMPS (pg 3-19)

- Direct replacement for mercury lamps on mercury ballasts
- More efficient, 57-114% more lumens and 10-14% fewer watts than mercury lamps they replace
- Uses: General lighting, roadway
- See operating notes for further information

GE SOX LOW PRESSURE SODIUM LAMPS (pg 3-19)

- Highest luminous efficacy for general, not for color-critical lighting
- Monochromatic, yellow color (589nm)

GE MERCURY LAMPS (pgs 3-19 to 3-20)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering (50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

GE SAF-T-GARD® MERCURY LAMPS (pg 3-20)

- Special self-extinguishing feature prevents exposure to harmful UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21 CFR 1040.30
- See operating notes for further information

GE E-Z MERC® SELF-BALLASTED MERCURY LAMPS (pgs 3-20 to 3-21)

• Retrofit incandescent sockets to longer-life mercury lamps without additional mercury ballasts or auxiliary equipment

GE EXPORT BASE LAMPS (pg 3-21 and 3-23)

- Export-only lamps are not intended for use in North America due to potential shock hazard. The lamps are identified by "/27" or "/40" at the end of the lamp description, and comply with electrical characteristics defined by IEC standards.
- Bulb shapes are generally similar to U.S. lamp types. Refer to drawings on pages 3-2 to 3-5.

HID BRAND NAME CROSS-R	EFERENCE	
GE	OSRAM/SYLVANIA	PHILIPS
Arcstream® MQI	BRITE-LINE™, HQI®	MHN-TD
ChromaFit™ Multi-Vapor®	_	_
ConstantColor® CMH®	Powerball MCP	MasterColor™ CDM
Ceramic Metal Halide		
Deluxe Lucalox®	_	Ceramalux™ Comfort
E-Z Lux®	Unalux®	Ceramalux™ Retrolux
E-Z Merc®	_	Self Ballasted Mercury
Ecolux®	Lumalux ECO®	Ceramalux Alto®
Ecolux® NC	Lumalux Plus™/ECO®	Ceramalux Alto® Plus
High Output Multi-Vapor®	Super Metalarc®	Metal Halide
Horizontal Multi-Vapor®	Super Metalarc®	_
I-Line Multi-Vapor®	_	_
Lucalox®	Lumalux®	Ceramalux™
Multi-Vapor®	Metalarc®	Metal Halide
Protected High Output Multi-Vapor®	Metalarc® Pro-Tech™	_
PulseArc®	Super Metalarc® Pulse Start	Pulse Start
Saf-T-Gard® Mercury	Mercury Safeline®	Safety Lifeguard Mercury
Saf-T-Gard® Multi-Vapor®	Metalarc® Safeline®	Safety Lifeguard Metal Halide
SOX Low Pressure Sodium	SOX Low Pressure Sodium	SOX Low Pressure Sodium
Standby Longlife Lucalox®	Lumalux® Standby	Instant Restrike Ceramalux™
StayBright®		
Watt-Miser® Multi-Vapor®	_	_

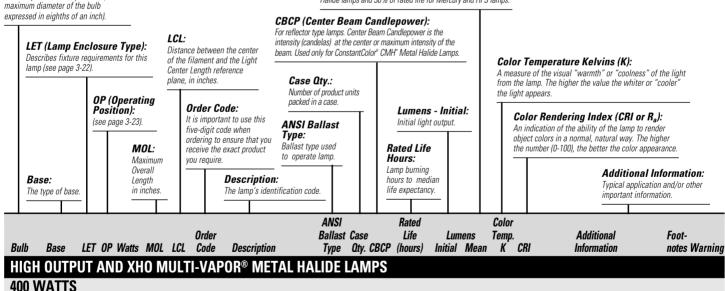
ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

HEADINGS IN THIS CATALOG SECTION

The following terms and descriptions can help you when checking High Intensity Discharge lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these wattage groups, lamps are listed by bulb shape.

Lumens - Mean:

Lamp light output (lumens) at 40% of rated lamp life for Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.



6

20000 41000

M59

MVR400 / C / VBU

Identifies as Multi-Vapor® lamp.

Identifies the lamp's wattage.

S VBU 400 11.5 7

Outer bulb finish.

49656 MVR400/C/VBU

Operating position (see page 3-23)

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

- 1. Identify bulb shape by using illustrations on pages 3-2 to 3-5.
- 2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.

Coated

121

3. Identify base type using table on page 3-5.

26500 3700 70

Find your lamp in the tabular data containing the bulb shape, size and base, which are all listed by wattage.

ED37

Mog

Bulb:

Bulb shape followed by its size (the

Bulb	Base			MOL LC		Description	ANSI Ballast Type	Case Oty. CBCI	Rated Life P (hours)			Color Temp. K	CRI	Additional Information	Foot- notes V	Varning
		R STAE														
PAR20	•	0 U	39	3.12		CMH39/UPAR20/FL25	M130	15 7500	10000	2100		3000	86 🕖	25 Floodlight, UV control	33 45	107
1 71120	IVICU	0 0	00	0.12		CMH39/UPAR20/SP10		15 22000		2100		3000		10 Spotlight, UV control		107
PAR30	L Med	0 U	39	4.75		CMH39/PAR30L/SP15	M130			2400			81 🕖	15 Spotlight, UV control		107
						CMH39/PAR30L/FL25	M130			2400		3000		25 Floodlight, UV control		107
					45066	CMH39/PAR30L/SP10	M130	6 39600	10000	2400		3000	81 🖉	10 Spotlight, UV control	33, 45	107
			70	4.75		CMH70/PAR30L/830SP	M139			4700			82 🕖	15 Spotlight, UV control		107
						CMH70/PAR30L/830FL	M139	or 6 10000		4700			82 🖉	40 Floodlight, UV control		107
PAR38	Med	0 U	70	5.31		CMH70/PAR38/830SP1!	M139			4800			82 Ø	15 Spotlight, UV control		108
						CMH70/PAR38/830FL25	M139			4800			82 Ø	25 Spotlight, UV control		108
						CMH70/PAR38/830WF	M98 o M139		10000	4800			82 🕖	Wide Floodlight, UV control	33	108
			100	5.31		CMH100/PAR38/830S15	M140			6500			81 Ø	15 Spotlight, UV control		108
						CMH100/PAR38/830F25	M140			6500			81 @	25 Spotlight, UV control		108
F1 1 15	TIOAI	/00L0	D OT	ADULT		CMH100/PAR38/830W	M90 o M140	or 6	10000	6500	,	3000	81 🕖	Wide Floodlight, UV control	33	108
		•				R LIFE ±150K)										
BD17	Med	ΕU	70	5.43 3.3		CMH70/U/830/MED	M98 o M139		15000	6300	4100			Clear	33	116
			100	- 40 0 O		CMH70/C/U/830/MED	M98 o M139		15000	6000	4000			Coated	33	116
			100	5.43 3.3		CMH100/U/830/MED	M90 o M140		10000V 15000H	9200H	6600V 6400H			Clear	33	116
		DED 04		01.00.0		CMH100/C/U830/MED	M90 o M140		10000V 15000H		6300V 6300H	3000	83 🖉	Coated	33	116
			•			ITY OVER LIFE ±1	•									
T4.5	BiPin G		39			CMH39/T/U/830/G12	M130		10000	3400	2400				39, 44, 4	
T6	BiPin G	i12E U	70	3.56 2.1		CMH70/T/U/830/G12		or M139	15000	6200	5000		83 🖉		39, 44, 4	
			150	0.00.01		CMH70/T/U/942/G12		or M139	15000	6400			93 🖉		39, 44, 4	
			150	3.93 Z.1		CMH150/T/U/830/G12		or M142		14000	11000				39, 44, 4	
DOLL	F.	IDED T	D /0	01 00 6		CMH150/T/U/942/G12		or M142	12000	13000	11000	4200	94 Ø		39, 44, 4	104
DOOL	RF-FL	NDFD I	D (C	OLOK S	IABIL	ITY OVER LIFE ±7	5K)									
Т6	Rx7s	E H45	70	4.5 2.2		CMH70/TD/830/RX7S		or M139	15000	7000	5600				39, 44	109
						CMH70/TD/942/RX7S		or M139	15000	7000	5600				39, 44	109
T7	Rx7s	E H45	150	5.37 2.6		CMH150/TD/830/RX7S		or M142		14000	11500				39, 44	109
					92590	CMH150/TD/942/RX7S	M81, M102,	12 or M142		14000	11500	4200	93 🖉		39, 44	109



Bulb	Base			MOL LCL	•	ANSI Ballast Type	Oty. CBCP	Rated Life (hours)		nens Te	olor emp. K	CRI	Additional Information	Foot- notes V	Varning
					ETAL HALIDE LAMPS (CONTINU	UED)								
MINI	'S (CO	LOR ST	ABI	LITY OV	/ER LIFE ±75K)										
T4.5	BiPin G	68.5E U	20	3.37 2	92696 CMH20/TC/U/830/G8.5	M156	12	9000V 7500H	1700	1200 3	000	81 🖉		33	104
			39	3.37 2	90352 CMH39/TC/U/830/G8.5	M130		10000	3400	2600 3	000	82 🖉		44	104
			70	3.37 2	92585 CMH70/TC/U/830/G8.5	M98 o M139	r12	9000	6200	4700 3	000	83 🖉		44	104
HIGH	I-WAT	T CMH	B SP	XX											
ED37	EX39	0 VBU	320	11.31 7	17264 CMH320/PA/0	M132	6	20000	30000	24000 37	700	90 🕖		33, 45	106
					17267 CMH320/C/PA/O	M132	6	20000	29000	23200 37	700	90 🖉		33, 45	106
					17261 CMH350/PA/0	M131	6	20000	34000	27200 36	600	90 🖉		33, 45	106
I					17262 CMH350/C/PA/O	M131		20000	33000	26400 36		90 🖉		33, 45	106
					17259 CMH400/PA/0	M135 or M1		20000	40000	32000 37	700	92 🖉		33, 45	106
					17260 CMH400/C/PA/O	M135 or M1		20000	39000	31200 37	700	92 🖉		33, 45	106
СМН	® CHR	OMAFI [*]	T™												
ED18	Mog	ΕU	400	9.75 5.7	5 93295 CMH400/U/830/R	S51	12	20000	42000	33000 30	000	85 🕖		44, 45	105
T15	Mog	E U	250		5 93357 CMH250/U/830/R	S50	12	16000	25000	20000 30		85 🕖		44, 45	105
PULS	SEARC	® MULT	I-VA	NPOR® I	METAL HALIDE LAMPS	S									
	ATTS														
ED17	Med	0 VBD	32	5.43 3.43	3 12651 MXR32/C/VBD/0	M100	6	10000	2400	1700 32	200	70	Coated, protected		119
					16469 MXR32/C/VBU/O	M100	6	10000	2400	1700 32	200	70	Coated, protected		119
50 W	ATTS														
BD17	Med	ΕU	50	5.43 3.43	3 10361 MXR50/U/MED	M110	6	5000	3900	2200 32	200	70	Clear		118
					10364 MXR50/C/U/MED	M110		5000	3500	1900 32			Coated		118
					12581 MVR50/U/MED	M110		5000	3100	1900 40			Clear		118
					12583 MVR50/C/U/MED	M110		5000	2900	1600 40			Coated		118
ED17	Med	0 U	50	5.43 3.43	3 45670 MXR50/U/MED/O	M110		10000	3400	1700 35			Clear, protected		119
70 W	ATTS				45671 MXR50/C/U/MED/O	M110	b	10000	3200	1500 35	500	/0	Coated, protected		119
BD17	Med	ΕU	70	E 12 2 1	2 221E0 MVD70/II/MED	M98	6	12000	5500	3500 32	200	70	Clear		118
וועם	ivieu	E U	70	J.43 J.4.	3 22158 MXR70/U/MED 22162 MXR70/C/U/MED	M98	6	12000	5300	3300 32			Coated		118
					12590 MVR70/U/MED	M98	6	12000	4700	3000 40			Clear		118
					12594 MVR70/C/U/MED	M98	6	12000	4500	2800 40			Coated		118
ED17	Med	0 U	70	5.43 3.43	3 12377 MXR70/U/MED/O	M98	6	12000	5500	3500 32			Clear, protected		119
					12577 MXR70/C/U/MED/O	M98	6	12000	5300	3300 32	200	70	Coated, protected		119
100 V	NATTS	3													
BD17	Med	ΕU	100	5.43 3.43	3 18680 MXR100/U/MED	M90	6	15000	9000	6200 32	200	70	Clear		118
					18679 MXR100/C/U/MED	M90	6	15000	8500	5900 32	200	70	Coated		118
					12652 MVR100/U/MED	M90	6	15000	8100	5800 40	000	75	Clear		118
					12653 MVR100/C/U/MED	M90	6	15000	7600	4900 40			Coated		118
ED17	Med	0 U	100	5.43 3.43	3 12381 MXR100/U/MED/O	M90	6	15000	9000	6200 32			Clear, protected		119
450	A / A TTC				12579 MXR100/C/U/MED/O	M90	6	15000	8500	5900 32	200	70	Coated, protected		119
	VATTS														
BD17	Med	ΕU	150	5.43 3.43	3 22935 MXR150/U/MED	M102		15000	12500	8600 32			Clear		118
					22936 MXR150/C/U/MED	M102		15000	12000	8300 32			Coated		118
					12598 MVR150/U/MED	M102		15000	11700	8100 40			Clear		118
					12604 MVR150/C/U/MED	M102	b	15000	11200	7700 40	UUU	/5	Coated		118

Bulb	Base	LET OP V	Vatts	MOL LCL	Order Code	Description	ANSI Ballast (Type	Case Oty. CBCP	Rated Life (hours)		nens Mean	Color Temp. K	CRI	Additional Information	Foot- notes	Warning
PULS	EARC	MULTI	-VA	POR® N	IETAL	HALIDE LAMPS	(CONT	NUED)								
150 V	VATTS	(CONTINU	UED)													
ED17	Med	0 U	150	5.43 3.43		MXR150/U/MED/O	M102		15000	12500		3500		Clear, protected		119
475 \	/ A TTO				45688 I	MXR150/C/U/MED/O	M102	6	15000	12000	8300	3500	70	Coated, protected		119
	VATTS															
BD17	Med	E VBU	175	5.75 3.43	12636 I	MVR175/VBU/MED/PA	M137 or M15		15000	17500	13000	4000	75	Clear	43	117
					12637 I	MVR175/C/VBU/MED/PA		6	15000	16500	12500	4000	75	Coated	43	117
BT28	EX39	0 VBU	175	8.25 5	49470 I	MPR175/VBU/O	M137 or M15		10000	14400	12000	4000	65	Clear, protected	43	119
ED23.5	Mog	E VBU	175	7.5 5	22342 I	MXR175/VBU/PA	M137	6	15000	17000	12500	3200	65	Clear	43	117
					11185 I	MXR175/C/VBU/PA	or M153 M137		15000	16000	12000	3200	65	Coated	43	117
							or M15	2								
					12622 I	MVR175/VBU/PA	M137 or M15		15000	17500	13000	4000	75	Clear	43	117
					12633 I	MVR175/C/VBU/PA	M137 or M15	6	15000	16500	12500	4000	75	Coated	43	117
250 V	VATTS															
BT28	EX39	0 VBU	250	8.25 5	49471 I	MPR250/VBU/O	M138 or M15		10000	23000	17000	4000	65	Clear, protected	43	119
ED28	Mog	E VBU	250	8.25 5	26317 I	MVR250/VBU/PA	M138 or M15	12	15000	23000	17000	4200	65	Clear	43	117
					26319 I	MVR250/C/VBU/PA	M138 or M15		15000	21500	15500	3900	65	Coated	43	117
320 V	VATTS						01 11113	o e								
ED28	Mog	E VBU	320	8.25 5	27501 I	MVR320/VBU/HO/PA	M132 or M15		20000	31000	18000	4000	65	Clear	43	117
					27502 I	MVR320/C/VBU/HO/PA	M132 or M15	12	20000	30000	16500	3700	70	Coated	43	117
					45666 I	MVR320/VBU/XHO/PA	M132 or M15	12	20000	34000	25000	4000	65	Clear	43	116
					45669 I	MVR320/C/VBU/XHO/PA	M132 or M15		20000	33000	23000	3700	70	Coated	43	116
	EX39	0 VBU	320	8.25 5	19609 I	MPR320/C/PA/ED28	M132 or M15	12	20000	30600	24500	3700	70	Coated, protected	43	120
ED37	EX39	0 VBU	320	11.5 7	46275 I	MPR320/VBU/XHO/PA	M132 or M15	6	20000	32000	22500	4000	65	Clear, protected	43	120
					46276 I	MPR320/C/VBU/XHO/PA		6	20000	30500	21500	3700	70	Coated, protected	43	120
350 V	VATTS						OI IVII D	•								
ED37	Mog	E VBU	350	115 7	22720 I	MVR350VBUXH0PA/E	M121	6	20000	37000	27500	4000	62	Clear	43	117
LUJI	iviug	L VDU	JJU	11.J /		WVR350CVBUXHOPAE				36000	26000			Coated	43	117
	EX39	0 VBU	350	11.5 7		MPR350/VBU/PA	M131			35200	24600			Clear, protected	43	120
						MPR350/C/VBU/PA	M131			33400	23500			Coated, protected	43	120
					48825 I	MPR350/C/VBU/3K/PA	M131	6	20000	33400	23500	3400	70	Coated, protected	43	120
	VATTS															
ED28	Mog	E VBU	400	8.25 5	46271 I	MVR400/VBU/ED28/PA	M135 or M15		20000	44000	28500	4000	65	Clear	43	116
					46272 I	MVR400/C/VBU/ED28/PA	M135 or M15		20000	42000	27500	3700	70	Coated	43	116



						Order		ANSI Ballast	Caca	Rated Life	1	mens	Color Temp.		Additional	Foot-	
Bulb	Base	LET OP	Watts	MOL	LCL		Description		Oty. CB			l Mean	К	CRI	Information		Warning
PULS	SEARC®	MULT	I-VA	POR	®V	IETAL	HALIDE LAMPS	(CONT	INUED)							
400 V	VATTS	(CONTIN	IUED)														
ED37	Mog	S VBU	400	11.5	7	45664 N	//VR400/VBU/HO/PA	M135 or M15		20000	41000	31000	4000	65	Clear	43	121
						45665 N	//VR400C/VBU/HO/PA	M135 or M15		20000	40000	30000	3700	70	Coated	43	121
						12642 N	/IVR400/VBU/XHO/PA	M135 or M15		20000	44000	33000	4000	65	Clear	43	121
						12644 N	/VR400/C/VBU/XHO/PA	M135 or M15		20000	42000	31500	3700	70	Coated	43	121
		E V	400	11.5	7	46632 N	MVR400VBD/XHO/PA	M135 or M15		20000	44000	35200	4000	65			
Ī	EX39	0 VBU	400	11.5	7	46273 N	MPR400/VBU/XHO/PA	M135 or M15		20000	42000	29500	4000	65	Clear, protected	43	120
						46274 N	//PR400/C/VBUXHO/PA	M135 or M15		20000	40000	28000	3700	70	Coated, protected	43	120
750 V	VATTS																
BT37	Mog	S VBU	750	11.5			//VR750/VBU/PA	M149			82000	60000			Clear	43	121
4000	\4/A TT	•				45560 N	/IVR750/C/VBU/PA	M149	6	16000	72000	54000	3700	70	Coated	43	121
	WATTS				_												
BT37	Mog	E VBU					//VR1000/U/BT37/PA	M141	6			90000V 82000H	3900	65	Clear	43	116
	TI-VAP	OR® M	ETA	L HA	LID	E LAN	IPS										
150 V	VATTS																
ED28	Mog	ΕU	150	8.25	5		MVR150/U/WM		12	10000V 7500H	11500H	7200H			Clear, Watt-Miser®		117
						13490 N	MVR150/C/U/WM	M57	12	10000V 7500H		8000V 6900H	3700	70 🗻	Coated, Watt-Miser®		117
175 V	VATTS																
BD17	Med	ΕU	175	5.75	3.43	18902 N	/IVR175/U/MED	M57	6	10000V 6000H		8800V 7400H	4000	65	Clear		117
							MVR175/U/MED/CP	M57	4	10000V 6000H		8800V 7400H	4000	65	Clear, Consumer Pack		117
							MVR175/C/U/MED	M57	6	10000V 6000H	11900H	8400V 7900H			Coated		117
ED28	Mog	ΕU	175	8.25			MVR175/U		12		11700H	8800V 7400H			Clear		117
							/IVR175/U/CP	M57	4		11700H	8800V 7400H			Clear, Consumer Pack		117
							/IVR175/C/U		12	10000V 6000H	11900H	8400V 7900H			Coated		117
							MVR175/SP30/U		12		10300H	7600V 6500H			RE730 Phosphor Coating		117
PAR38		E	175	5.62		25218 N	/IVR175/PAR38/FL/1	M57	6 65	00 7500V	12000V	7600V	3800	65	Clear, One-piece PAR		117
	VATTS																
ED28	Mog	ΕU	250	8.25			MVR250/U		12	6000H	19100H	13500V 12400H			Clear		117
			175	8.25	5	26434 N	MVR250/U/CP	M58	4			13500V 12400H	4200	65	Clear, Consumer Pack		117

Bulb	Base	LET OP	Watts	MOL	LCL	Order Code Description	ANSI Ballast Type	Case Oty. CBCF	Rated Life (hours)	Lu	mens I Mean	Color Temp. K	CRI	Additional Information	Foot- notes War
MUL	TI-VAP	OR® N	/IETA	L HA	LID	E LAMPS (CONTINUED)									
250 V	VATTS	(CONTI	NUED)												
ED28	Mog	ΕU	250	8.25	5	42731 MVR250/C/U	M58		10000V	18200H				Coated	1
						17633 MVR250/SP30/U	M58	12	10000V 6000H	18000V 16600H	11500V 10600H	3000	70	RE730 Phosphor Coating	1
360 V	VATTS														
ED37	Mog	S VBU	J 360	11.5		13495 MVR360/VBU/WM/HO		6	20000					Clear, Watt-Miser®	32 1
400 V	VATTS					13496 MVR360/C/VBU/WM/H	U IVI59	6	20000	35000	23000	4000	/0 -	Coated, Watt-Miser®	32 1
ED28	Mog	E U	400	8.25	5	18904 MVR400/U/ED28	M59		20000V	36000V 33100H	23500V 22100H	4000	65	Clear, Compact Bulb	1
						19979 MVR400/C/U/ED28	M59	12	20000V	35000V 32200H	23000V	4000	65	Coated, Compact Bulb	1
ED37	Mog	S U	400	11.5	7	43828 MVR400/U	M59			36000V 33100H	23500V 22100H	4000	65	Clear	1
						26435 MVR400/U/CP	M59		15000H	36000V 33100H	22100H			Clear, Consumer Pack	1
						43829 MVR400/C/U	M59		15000H	32200H				Coated	1
1000		•				17632 MVR400/SP30/U	M59			31000V 28500H	18600V 17100H	3000	70	RE730 Phosphor Coating	1
	WATT														
BT37	Mog	E U		11.5		18205 MVR1000/U/BT37	M47		9000H1	05000H	82000H			Clear, Compact Bulb	1
BT56	Mog	S U	1000	15.37		41826 MVR1000/U	M47		11000H1	00280H	79000H			Clear	1
						41827 MVR1000/C/U	M47		11000H	05000V 96600H	80000V 73000H	3700	65	Coated	1
			D XI	10 M	ULT	T-VAPOR® METAL HA	LIDE	AMPS							
	VATTS														
ED28	Pos Mo	g E HOF	R 175	8.25	5	18104 MVR175/HOR	M57	12	10000	15000		4000		Clear, Position Oriented Socket Required	1
1						18105 MVR175/C/HOR	M57	12	10000	14100	7500	3500	70	Coated, Position Oriented Socket Required	1
	VATTS														
ED28	Pos Mo	g E HOF	R 250	8.25	5	18101 MVR250/HOR	M58	12	15000	21000		4200		Clear, Position Oriented Socket Required	1
						18103 MVR250/C/HOR	M58	12	15000	19700	9400	3600	70	Coated, Position Oriented Socket Required	1
360 V	2TTAV	– WA	TT-M	IISFR	® F	NERGY-SAVING REPL	ACFN	IENT FO	OR 400)W M	ETAI I	ΗΔΙΙ	DE	Joonet Heyanida	
ED37	Mog			11.5		40053 MVR360/VBU/WM/XH0		6	20000	39000		4200		Clear, Watt-Miser [®]	32 1
	9	5 150			•	40055 MVR360/C/VBU/WM/XH		6	20000	37500		4000		<u> </u>	32 1
						47685 MVR360/VBU/STB/WM		6	20000	36000		4300		 Clear, Watt-Miser®, StayBright® 	32 1
						47686 MVR360/C/VBU/STB/WN	M M59	6	20000	35000	26000	4000	70 -	 Coated, Watt-Miser[®], StayBright[®] 	32 1
400 V	VATTS														
BT28	Mog	E HOI		8.25		40201 MVR400/HOR/BT28	M59	12	20000	37000	22000			Clear, Compact Bulb	1
BT37	Mog	E HOI	R 400	11.5		26218 MVR400/HOR/MOG	M59	6	20000	38000	22500			Clear	1
						26219 MVR400/C/HOR/MOG	M59	6	20000	36800	22000			Coated	1
ED28	Mog	E VBI	J 400	8.31	1	40335 MVR400/VBU/BT28	M59	12	20000	41000	26500	4000	65	Clear, Compact Bulb	1



### Base ####################################	(CO) S S S HTI	AND NTINU VBU 1 VBU 1	XHO (ED) 1000 1	MOL LCL D MUL 1.5 7 5.37 9.5 5.37 9.5	26865 N 26866 N 49657 N 49655 N 20931 N 13923 N 13924 N 41433 N 44835 N	Description POR® METAL HAI AVR400/VBU/STB/HO AVR400/CVBU/STB/HO AVR400/VBU/HO AVR400/VBU AVR400/VBU AVR400/VBU AVR400/VBU AVR400/VBU/XHO AVR400/C/VBU/XHO AVR400/C/VBU/XHO AVR1000/VBU/O AVR1000/VBU/HO	M59 M59 M59 M59 M59 M59 M59 M59	Qty. CBCP) Initia	31000 29500 26500 26500 26500 20400 28000 27000	3700 4000 3700 4000 3200 4000	65 70 65 70 65 70	Additional Information Clear, StayBright® Coated, StayBright® Clear Coated Clear RE730 Phosphor Coating, Vertical Base Up ±15° Clear Coated	Foot- notes W	121 121 121 121 121 121 121 121
1000 WATTS BT56 Mog SPORTSLIC 1000 WATT PAR64 G38	(con S S O S S S	VBU 1 VBU 1 VBU 1	(ED) 100 1	1.5 7 5.37 9.5	26865 N 26866 N 49657 N 49656 N 49655 N 20931 N 13923 N 13924 N 41433 N 44835 N	AVR400/VBU/STB/HO AVR400/CVBU/STB/HO AVR400/VBU/HO AVR400/C/VBU AVR400/VBD AVR400/SP30/VBU/HO AVR400/VBU/XHO AVR400/C/VBU/XHO AVR400/C/VBU/XHO	M59 M59 M59 M59 M59 M59 M59 M59	6 6 6 6 6 6	20000 20000 20000 20000 20000 20000 20000	41000 41000 41000 41000 41000 34000	29500 26500 26500 26500 20400 28000	3700 4000 3700 4000 3200 4000	70 65 70 65 70	Coated, StayBright® Clear Coated Clear RE730 Phosphor Coating, Vertical Base Up ±15° Clear		121 121 121 121 121 121
1000 WATT BT56 Mog SPORTSLIC 1000 WATT PAR64 G38	\$ 0 S HIII	VBU 1 VBU 1 NG	000 1	5.37 9.5	26866 N 49657 N 49656 N 49655 N 20931 N 13923 N 13924 N 41433 N 44835 N	AVR400/CVBU/STB/HC AVR400/VBU/HO AVR400/C/VBU AVR400/SP30/VBU/HO AVR400/VBU/XHO AVR400/C/VBU/XHO AVR400/C/VBU/XHO	M59 M59 M59 M59 M59 M59 M59 M59	6 6 6 6 6 6	20000 20000 20000 20000 20000 20000	41000 41000 41000 41000 34000 43000	29500 26500 26500 26500 20400 28000	3700 4000 3700 4000 3200 4000	70 65 70 65 70	Coated, StayBright® Clear Coated Clear RE730 Phosphor Coating, Vertical Base Up ±15° Clear	,	121 121 121 121 121 121
1000 WATT: BT56 Mog SPORTSLIC 1000 WATT: PAR64 G38	S 0 S	VBU 11 VBU 11	000 1	5.37 9.5	26866 N 49657 N 49656 N 49655 N 20931 N 13923 N 13924 N 41433 N 44835 N	AVR400/CVBU/STB/HC AVR400/VBU/HO AVR400/C/VBU AVR400/SP30/VBU/HO AVR400/VBU/XHO AVR400/C/VBU/XHO AVR400/C/VBU/XHO	M59 M59 M59 M59 M59 M59 M59 M59	6 6 6 6 6 6	20000 20000 20000 20000 20000 20000	41000 41000 41000 41000 34000 43000	29500 26500 26500 26500 20400 28000	3700 4000 3700 4000 3200 4000	70 65 70 65 70	Coated, StayBright® Clear Coated Clear RE730 Phosphor Coating, Vertical Base Up ±15° Clear	,	121 121 121 121 121 121
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			49657 N 49656 N 49655 N 20931 N 13923 N 13924 N 41433 N 44835 N	AVR400/VBU/HO AVR400/C/VBU AVR400/VBD AVR400/SP30/VBU/HO AVR400/VBU/XHO AVR400/C/VBU/XHO AVR400/VBU/O	M59 M59 M59 M59 M59 M59 M59	6 6 6 6 6	20000 20000 20000 20000 20000	41000 41000 41000 34000 43000	26500 26500 26500 20400 28000	4000 3700 4000 3200 4000	65 70 65 70 65	Clear Coated Clear RE730 Phosphor Coating, Vertical Base Up ±15° Clear	,	121 121 121 121 121
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			49656 N 49655 N 20931 N 13923 N 13924 N 41433 N 44835 N	AVR400/C/VBU AVR400/VBD AVR400/SP30/VBU/HO AVR400/VBU/XHO AVR400/C/VBU/XHO AVR400/VBU/O	M59 M59 M59 M59 M59	6 6 6 6	20000 20000 20000 20000	41000 41000 34000 43000	26500 26500 20400 28000	3700 4000 3200 4000	70 65 70 65	Coated Clear RE730 Phosphor Coating, Vertical Base Up ±15° Clear	,	121 121 121 121
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			49655 N 20931 N 13923 N 13924 N 41433 N 44835 N	//VR400/VBD //VR400/SP30/VBU/HO //VR400/VBU/XHO //VR400/C/VBU/XHO //PR1000/VBU/O	M59 M59 M59 M59 M47	6 6 6	20000 20000 20000	41000 34000 43000	26500 20400 28000	4000 3200 4000	65 70 65	Clear RE730 Phosphor Coating, Vertical Base Up ±15° Clear	,	121 121 121
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			20931 N 13923 N 13924 N 41433 N 44835 N	//VR400/SP30/VBU/HO //VR400/VBU/XHO //VR400/C/VBU/XHO //PR1000/VBU/O	M59 M59 M59 M47	6 6	20000	34000 43000	20400 28000	3200 4000	70 65	RE730 Phosphor Coating, Vertical Base Up ±15° Clear	,	121 121
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			13923 N 13924 N 41433 N 44835 N	//VR400/VBU/XHO //VR400/C/VBU/XHO //PR1000/VBU/0	M59 M59 M47	6	20000	43000	28000	4000	65	Vertical Base Up ±15° Clear		121
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			13924 N 41433 N 44835 N	//VR400/C/VBU/XHO //PR1000/VBU/O	M59 M47	6								
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			41433 N 44835 N	/IPR1000/VBU/O	M47		20000	42000	27000	3700	70	Coated		121
SPORTSLIC 1000 WATT PAR64 G38	0 S HTI S	VBU 1			44835 N			6								
SPORTSLICE 1000 WATT PAR64 G38 1500 WATT	S 	VBU 1			44835 N			6								
1000 WATT PAR64 G38 1500 WATT	llii S	NG	000 1	5.37 9.5		/IVR1000/VBU/HO				107000	85500		65	Clear, Protected		119
1000 WATT PAR64 G38 1500 WATT	S				13137 N		M47		15000V1				65	Clear		121
1000 WATT PAR64 G38 1500 WATT	S					/IVR1000/C/VBU/HO	M47	6	15000V1	07000V	81500V	3700	70	Coated		121
PAR64 G38 1500 WATT	_	U 1														
1500 WATT	E	U 1														
			000	6.87	29333 S	PL1000/PAR64840	-	1135000	0 3500	63000	53000	4000	80 Ø	Clear, Narrow Spot, 6° Beam, 1,350,000 CBCP	38	124
					29336 S	PL1000/PAR64/HR	_	1135000	0 3500	63000	53000	4000	80 Ø	Clear, Narrow Spot, 6° Beam, 1,350,000 CBCP	38	124
BT56 Mog	S															
	Ε	U 1	500 1	5.37 9.5	47326 N	/IVR1500/U/SPORTS	M48	6		70000V 62000H	153000V 133000H	4000	65	Clear	17, 42	117
					37405 N	/IVR1500/HBU	M48	6		65000V 55000H	140000V 130000H	3900	65	Clear	16, 17	117
T7 Rx7s 1650 WATT		HOR1!	500 1	0.12 5	30061 S	PL1500/L/H/652	_	1	6000	120000	90000	5200	80 🕏	Frosted	38	125
BT56 Pos Mo	og E	HOR 1	650 1	5.37 9.5	25532 N	/IVR1650/HOR	M112	6	3000	177000	145000	3200	65	Clear, Position Oriented Socket Required	17	117
2000 WATT	S													·		
T9 #10 Spade		HOR 2	000 1	0 4.3	12275 N	/IQI2000/T9/40	M134	10	4000	200000	160000	4000	65	Clear		125
-		Ш	VΔI	OR® N	ЛΕΤΔΙ	HALIDE LAMPS										
32 WATTS	<i>-</i>	JEII		O II I	11-11/A\S	II/LEIDE EAIIII O										
ED17 Med	0	VBD	32	5.43 3.43	3 12651 N	/IXR32/C/VBD/O	M100	6	10000	2400	1700	3200	70	Coated, protected		119
					16469 N	/IXR32/C/VBU/O	M100	6	10000	2400	1700	3200	70	Coated, protected		119
50 WATTS																
ED17 Med	0	U	50	5.43 3.43	3 45670 N	//XR50/U/MED/O	M110	6	10000	3400	1700	3500	70	Clear, protected		119
	-					//XR50/C/U/MED/O	M110		10000	3200		3500		Coated, protected		119
70 WATTS																
ED17 Med	0	U	70	5.43 3.43	3 12377 N	/IXR70/U/MED/O	M98	6	12000	5500	3500	3200	70	Clear, protected		119
	-		-			//XR70/C/U/MED/O	M98	6	12000	5300		3200		Coated, protected		119
100 WATTS														.,		
ED17 Med	0	U	100	5.43 3.43	3 12381 N	/IXR100/U/MED/O	M90	6	15000	9000	6200	3200	70	Clear, protected		119
	3	-		J		//XR100/C/U/MED/O	M90	6	15000	8500		3200		Coated, protected		119

									ANSI		Rated			Color				
Bulb	Base	I ET	no v	Vatto	MOL	ıcı	Order Code	Description	Ballast	Case Oty. CBCP	Life /bours		mens Mean	Temp. K	CDI	Additional Information	Foot-	Varning
								HALIDE LAMPS		•	(hours)	IIIIUai	IVICALI	Λ	UNI	IIIIOIIIIAUOII	notes v	varning
	VATTS		131	-	AI UI	1 - 10	ILIAL	HALIDE LAWII 3	(CUNT	INUED/								
ED17	Med	0 U	ı	150	5.43	3 /13	45683 N	MXR150/U/MED/O	M102	6	15000	12500	8600	3500	70	Clear, protected		119
LUII	IVIGU	0 0	,	130	J. 1 J	J. 4 J		/XR150/C/U/MED/O	M102		15000	12000	8300			Coated, protected		119
175 V	NATTS																	
BT28	EX39	0 V	'BU	175	8.25	5	49470 N	/IPR175/VBU/0	M57	6	10000	14400	10200	4000	65	Clear, protected		119
								/IPR175/C/VBU/O	M57	6	10000	14000	10000	3800	70	Coated, protected		119
250 V	VATTS																	
BT28	EX39	0 V	'BU	250	8.25	5	49471 N	/IPR250/VBU/0	M58	6	10000	23000	17000	4000	65	Clear, protected		119
							11650 N	/IPR250/C/VBU/O	M58	6	10000	20500	17000	3800	70	Coated, protected		119
	VATTS																	
ED37	EX39	0 V	'BU	320	11.5	7		/IPR320/VBU/XHO/PA	M132 or M15	54	20000	32000	22500			Clear, protected		120
							46276 N	/IPR320/C/VBU/XHO/PA	M132 or M15		20000	30500	21500	3700	70	Coated, protected		120
350 V	VATTS																	
ED37	EX39	0 V	'BU	350	11.5	7		MPR350/VBU/PA	M131	6	20000	35200	28200			Clear, protected	43	120
								MPR350/C/VBU/PA MPR350/C/VBU/3K/PA	M131	6	20000	33400 33400	26700 26700			Coated, protected Coated, protected	43	120 120
360 V	NATTS	– W	ΔΤ	T-M	IISFI	R® F		Y-SAVING REPL								Coateu, protecteu	40	120
ED37	Mog				11.5			/IPR360/VBU/WM/HO/0		6	20000	36000				Clear, protected	32	119
LDUI	iviog	0 V	БО	500	11.5	,		//PR360CVBUWMHO/0		6	20000	35000	22500				32	119
400 V	VATTS							.,.								γ, γ		
ED37	Mog	0 V	'BU	400	11.5	7	18708 N	/IPR400/VBU/HO/O	M59	6	20000	40000	26000	3400	65	Clear, protected		119
								/IPR400/C/VBU/HO/O	M59	6	20000	38000	25000	3200	70	Coated, protected		119
	EX39	0 V	'BU	400	11.5	7		/IPR400/VBU/XHO/PA	M135 or M15		20000	42000		4000	65	Clear, protected	43	120
							46274 N	/IPR400/C/VBUXHO/PA	M135 or M15	6 55	20000	40000	28000	3700	70	Coated, protected	43	120
1000	WATT	S																
BT56	Mog	0 V	BU 1	000	15.37	9.5	41433 N	/IPR1000/VBU/0	M47	6	12000	107000	85500	3500	65	Clear, Protected		119
			IUL	TI-V	/AP()R®	META	L HALIDE LAMP	S (HP	S RETR	OFIT	LAMP	S)					
250 V	VATTS																	
ED28	Mog	ΕV	'BU	250	8.25	5.75		/IVR250/VBU/R		12	10000	18500	13900			Clear, HPS Retrofit		116
400 V	A/A TTC						12769 N	/IVR250/C/VBU/R	S50	12	10000	18000	13000	4000	70	Coated, HPS Retrofit		116
	VATTS				2.04	_		E) (D 400 (L) (E D00 (D	0=4	40			202221	4000		OL LIDOD C		440
ED28	Mog	E U		400	8.31			/IVR400/U/ED28/R			15000H	36000V 33100H	20200H			Clear, HPS Retrofit, Compact Bulb		116
ED37	Mog	S V	'BU	400	11.5	5.75		/VR400/VBU/R	S51	6	20000	37600	22600			Clear, HPS Retrofit		122
ППЛ	C NALLL	TI W	Λ D4) D@	V.1-	TAL		/VR400/C/VBU/R	S51	6 D##00	20000	35700	21400	4000	70	Coated, HPS Retrofit		122
	E MUL VATTS		AP(IJK®	WIE	TAL	i i /A\Lili	DE LAMPS (MER	CUKY	KETKU	FII L	AIWIPS						
ED37	Mog	s u	I	325	11.5	7	10687 N	/IVR325/I/U/WM	H33			28000V 25800H		4000	65 -	Clear, Retrofit for 400W Mercury, Watt-Miser®		121
							10688 N	/IVR325/C/I/U/WM	H33	6	20000V	26300V 24200H	12900V	3700	70 -			121



						Order		ANSI Ballast	Case	Rated Life		ımens	Color Temp.		Additional	Foot-
Bulb	Base	LET OF	P Watt	s MOL	LCL		Description	Туре				il Mean		CRI	Information	notes Warnin
I-LIN	IE MUL	TI-VA	POR	® ME	TAL	HALI	DE LAMPS (MEI	RCURY	RET	ROFIT L	AMPS) (CONT	TINUE	D)		
	WATTS															
ED37	Mog	S U	400	11.5	7	43817 I	MVR400/I/U	H33 or M59	6	15000V 10000H		24000V 22100H	4000	65	Clear, Retrofit for 400W Mercury	121
						43818 N	MVR400/C/I/U	H33 or M59	6	15000V	35000V		3700	70	Coated, Retrofit for 400W Mercury	121
950 \	WATTS	ENEF	RGY-	SAVI	NG I	REPLA	CEMENT FOR 1	000W	MER	CURY						
BT56	Mog	S VB	U 950	15.06	9.5	39097 I	MVR950/I/VBU	H36 or M4	6 7	12000	100000	62900	3800	65 🕶	Coated, Retrofit for 1000W Mercury, Watt-Mis	121 er®
SAF-	-T-GAR	D® SE	LF-E	XTIN	GUI	SHINO	MULTI-VAPOF	R® LAN	IPS							
400 \	WATTS															
ED37	Mog	S U	400	11.5	7	11146 I	MVT400/I/U	H33 or M59	6	15000V 10000H		23500V 22100H	4000	65	Clear, Retrofit for 400W Mercury	123
						11119 F	MVT400/C/I/U	H33 or M59	6	15000V 10000H	35000V	23000V	3700	70	Coated, Retrofit for 400W Mercury	123
		\overline{VB}	U 400	11.5	7		VIVT400/VBU	M59	6	20000	41000	26500			Clear	123
						11145 N	VIVT400/C/VBU	M59	6	20000	41000	26500	3700	70	Coated	123
ARC	STREAL	M® M	ETAL	L HAI	LIDE	LAM	PS									
70 W	/ATTS															
T6	R7s	E HO	R 70	4.68	3	34530 A	ARC70/TD/UVC/730	M85	12	6000	6000	4800	3000	75	Clear	103
						34536 A	ARC70/TD/UVC/743	M85	12	6000	6000	4800	4300	75	Clear	103
150 \	WATTS															
CAP	BiPin GY9.5	ΕU	150	1.62	2 1.12	34813 (CSS150/CAP/50	M81	10	1000	10000	8000	5000	80 Ø	Clear, Disco Lamp	102
T6	BiPin G	I2E U	150	3	2.25		ARC150T/U/830G12	M81	10	6000	12000	9500	3000	80 🖉	Clear	102
							ARC150T/U/840G12	M81	10	6000	11500	10500			Clear	102
Γ7	R7s	E HO	R 150	5.37	7		ARC150/TD/UVC/730	M81	12	6000	13000	11000			Clear	103
250 1	A/ATTC					34535 F	ARC150/TD/UVC/742	M81	12	6000	12000	10000	4200	/5	Clear	103
	WATTS		_													
T15	Mog	E HO	R 250	8.3	7 5.62	26683 <i>F</i>	ARC250/T/H/960/E	M80	12	10000	19000	13300	6000	90 🖉	Clear, Daylight Color	101
	WATTS															
ED18	Mog	E HO	R 400	10.5	6.75	26685 k	(RC400/T/H/960/E	M135	12	10000	25000	17500	6000	90 🖉	Clear, Daylight Color	110
LUC	ALOX®	HIGH	PRE:	SSUF	RE S	DDIUN	M LAMPS									
35 W	/ATTS															
B17	Med	0 U	35	5.43	3 3.43	11668 L	.U35/MED	S76	6	16000	2250	2025	1900	22	Clear	111
						26420 L	.U35/MED/CP	S76	4	16000	2250	2025	1900	22	Clear, Consumer Pack	111
						11669 L	.U35/D/MED	S76	6	16000	2150	1935	1900	22	Diffuse	111
50 W	ATTS															
B17	Med	0 U	50	5.43	3 3.43	11345 L	.U50/MED	S68	6	24000+	4000	3600	1900	22	Clear	111
							.U50/MED/CP	S68	4	24000+	4000		1900		Clear, Consumer Pack	111
							.U50/D/MED	S68	6	24000+	3800		1900		Diffuse	111
ED23.	5 Mog	0 U	50	7.7!	5 5	44975 L		S68	12	24000+	4000		1900		Clear	111
							.U50/CP	S68	4	24000+	4000		1900		Clear, Consumer Pack	111
70 14	/ATTO					45006 L	.U3U/U	S68	12	24000+	3800	3420	1900	22	Diffuse	111
	ATTS															
B17	Med	0 U	70	5.43	3 3.43		.U70/MED	S62	6	24000+	6400		1900		Clear	111
							U70/MED/CP	S62	4	24000+	6400		1900		Clear, Consumer Pack	111
						11340 L	.U70/D/MED	S62	6	24000+	5950	5050	1900	22	Diffuse	111

Bulb	Base	LET OP	Watts	MOL LCI	Order L Code	Description	ANSI Ballast Type		Rated Life BCP (hours)	Lu		Color Temp. K		Additional Information	Foot- notes Warning
						/I LAMPS (CONTI	- ''		(
		CONTIN				,									
ED23.5	Mog	0 U	70	7.75 5	44033 L	.U70	S62	12	24000+	6400	5450 1	900	22	Clear	111
	Ü				26426 L	.U70/CP	S62	4	24000+	6400	5450 1	900	22	Clear, Consumer Pack	111
					44035 L	.U70/D	S62	12	24000+	5950	5050 1	900	22	Diffuse	111
100 V	VATTS														
B17	Med	0 U	100	5.5 3.4	3 13250 L	.U100/MED	S54	6	24000+	9500	8550 2	2000	22	Clear	111
						.U100/MED/CP	S54	4	24000+	9500	8550 2			Clear, Consumer Pack	111
						.U100/D/MED	S54	6	24000+	8800	7920 2			Diffuse	111
ED23.5	Mog	0 U	100	7.75 5	44037 L		S54	12	24000+	9500	8550 2			Clear	111
						U100/CP	S54	4	24000+	9500	8550 2			Clear, Consumer Pack	111
1E0 V	VATTO				44U38 L	.U100/D	S54	12	24000+	8800	7920 2	2000	22	Diffuse	111
	VATTS		150	F 7F 0 F	40050	LIAFO/BAFF	055	0	04000	10000	14400	2000	00	OI.	444
B17	Med	0 U	150	5.75 3.5		U150/MED	S55	6 4	24000+	16000	14400 2 14400 2			Clear Consumer Book	111
						.U150/MED/CP .U150/D/MED	S55 S55	6	24000+ 24000+	16000 15000	13500 2			Clear, Consumer Pack Diffuse	111 111
ED23.5	Mon	0 U	150	7.75 5		.U150/55	S55	12	24000+	16000	14400 2			Clear	111
LD 20.0	iviog	0 0	100	7.75 5		.U150/55/CP	S55	4	24000+	16000	14400 2			Clear, Consumer Pack	111
						.U150/55/D	S55	12	24000+	15000	13500 2			Diffuse	111
ED28	Mog	0 U	150	8.31 5		.U150/100(ED28)	S56	12	24000+	15000	13500 2			Clear	111
200 V	VATTS														
ED18	Mog	0 U	200	9.75 5.7	5 44206 L	.U200	S66	12	24000+	22000	19800 2	2100	22	Clear	111
	VATŤS														
ED18	Mog	0 U	250	9.75 5.7	5 44047 L	.U250	S50	12	24000+	28000	27000 2	2100	22	Clear	111
25.0	mog	0 0	200	0.70 0.7		.U250/CP	S50	4	24000+	28000	27000 2			Clear, Consumer Pack	111
ED28	Mog	0 U	250	9 5		.U250/D	S50	12	24000+	26000	23400 2			Diffuse	111
310 V	VATTS														
ED18	Mog	0 U	310	9 5.7	5 44053 L	.U310	S67	12	24000+	37000	33300 2	2100	22	Clear	111
	VATTS														
ED18	Mog	0 U	400	9 5.7	5 44054 L	U400	S51	12	24000+	51000	45000 2	2100	22	Clear	111
LDIO	wog	0 0	100			.U400/CP	S51	4	24000+	51000	45000 2			Clear, Consumer Pack	111
ED37	Mog	0 U	400	11.31 7		.U400/D	S51	6	24000+	47500	42750 2	2100	22	Diffuse	111
T7	Rx7s	O HOF	R 400	10.12	30244 L	.U400/TD	S51	10	24000	43000	37300 2	2000	25	Clear, Double-ended,	111
coo v	VATTO													Horizontal Burn ±20°	
	VATTS			44.00.00			0400	40	10000		04000		•	01	110
T15	Mog	0 U	600	11.06 6.6	2 27187 L	.U600/T	S106	12	12000+	90000	81000 2	2000	22	Clear	112
	VATTS														
ED37	Mog	0 U	750	11.5 6.7	5 14682 L	.U750	S111	6	24000+	110000	99000 2	2100	22	Clear	112
1000	WATT	S													
E25	Mog	0 U				.U1000/ECO	S52	6			126000 2			Clear	111
T7	Rx7s	O HOF	R1000	13.18	30246 L	.U1000/TD	S52	10	24000	137500	118200 2	2000	25	Clear, Double-ended, Horizontal Burn ±20°	111
QTA1	IDBAT	UNCL		UCALO:	Y® L A.I	лрс								HOHZOHIAI DUHI ±20	
		-UNUL	45	UGALU	A~ JAII	AL O									
	ATTS	0 !!			40000	H30/0DW/2/1	000	40	40000	0.105	F0=0 -		00	01 0. " 1"	
ED23.5	Mog	0 U	70	7.75 5	19264 L	.U70/SBY/XL	S62	12	40000	6400	5050 2	2000	22	Clear, Standby Longlife, Dual Arc Tube	, 111



100 WATTS ED23.5 Mog		12	40000	9500	8190	2000	22		
ED23.5 Mog O U 150 7.75 5 19266 LU150/ 5	i5/SBY/XL \$55	12						Clear, Standby Longlife, Dual Arc Tube	111
	55/SBY/XL S55	12							
200 WATIS			40000	16000	14000	2000	22	Clear, Standby Longlife, Dual Arc Tube	111
	NBV/WI 000	10	40000	04500	10150	0000	00	01 01 11 11	444
ED18 Mog 0 U 200 9.75 5.75 23431 LU200/	SBY/XL S66	12	40000	21500	18150	2000	22	Clear, Standby Longlife, Dual Arc Tube	111
250 WATTS	NDV WI OFO	10	40000	07500	04750	0000	00	01 01 11 1 11	444
ED18 Mog 0 U 250 9.75 5.75 19270 LU250 /3	SBY/XL S50	12	40000	2/500	24750	2000	22	Clear, Standby Longlife, Dual Arc Tube	111
400 WATTS	NR W 9/1	40		=	45000			01 0 11 1 11	444
ED18 Mog 0 U 400 9.75 5.75 19272 LU400 /3	SBY/XL S51	12	40000	50000	45000	2000	22	Clear, Standby Longlife, Dual Arc Tube	111
1000 WATTS	IODV IVI	0	40000	107000	445000	0400	00	01 0: 11 1 1:0	444
E25 Mog O U 1000 15.06 8.75 27185 LU1000		6		127000			22	Clear, Standby Longlife, Dual Arc Tube	111
ECOLUX® NC NON-CYCLING HIGH PRESS 70 WATTS	URE SODIUM LA	AMPS (T	CLP C	OMPL	.IANT				
ED23.5 Mog O U 70 7.75 5 14672 LU70/E	CO/NC S62	12	30000	6300	5670	1900	23	Clear, Non-Cycling, TCLP Compliant	111
100 WATTS									
ED23.5 Mog O U 100 7.75 5 14673 LU100/	ECO/NC S54	12	30000	10500	9450	2000	23	Clear, Non-Cycling, TCLP Compliant	111
150 WATTS									
ED23.5 Mog O U 150 7.75 5 40390 LU150/	ECO/NC S55	12	30000	16000	14400	2000	23	Clear, Non-Cycling, TCLP Compliant	111
200 WATTS									
ET18 Mog 0 U 200 9.75 5.75 45059 LU200/ I	ECO/NC S66	20	30000	22000	19800	2100	22	Clear, Non-Cycling, TCLP Compliant	111
250 WATTS									
ED18 Mog O U 250 9.75 5.75 14674 LU250/E	CO/NC S50	12	30000	29000	26100	2000	30	Clear, Non-Cycling, TCLP Compliant	111
400 WATTS									
ED18 Mog O U 400 9.75 5.75 14675 LU400/ I	ECO/NC S51	12	30000	54000	48600	2100	30	Clear, Non-Cycling, TCLP Compliant	111
ECOLUX® HIGH PRESSURE SODIUM LAM	PS (TCLP COMP	LIANT)							
70 WATTS									
ED23.5 Mog 0 U 70 7.75 5 45760 LU70/E	CO S62	12	24000+	6400	5450	1900	22	Clear, TCLP Compliant	111
100 WATTS	CO 054	12	24000	0500	OFFO	2000	22	Cloor TCI D Campliant	111
ED23.5 Mog O U 100 7.75 5 45761 LU100/ U 150 WATTS	ECO S54	12	24000+	9500	8550	2000	ZZ	Clear, TCLP Compliant	111
ED23.5 Mog	5/ECO S55	12	24000+	16000	14400	2000	22	Clear, TCLP Compliant	111
200 WATTS	-,200		500 1					2.54., . 52. Compliant	111
ED18 Mog 0 U 200 9.75 5.75 45763 LU200/ I	ECO S66	12	24000+	22000	19800	2100	22	Clear, TCLP Compliant	111

Dull	D	,,,,	00.1	M-44-	MOI	101	Order		ANSI Ballast		Rated Life		nens	Color Temp.	CDI		Foot-
Bulb	Base		-	<i>Vatts</i>	_	_		Description	•	Qty. C			Mean	K	CKI	Information	notes Warning
		Ui	PK	E99	URE	9U	אוטוע	LAMPS (TCL	CUMPL	I/AIN) (CONTIN	UED)					
	NATTS	^		050	0.75		45364	L LIOTO /F.O.O.	050	10	04000	00000	07000	0100	00	OL TOLD O I' .	111
ED18	Mog NATTS	0	U	250	9.75	5./5	45/64	LU250/ECO	S50	12	24000+	28000	27000	2100	22	Clear, TCLP Compliant	111
ED18	_	0		400	9	E 70	. AE76E	LU400/ECO	S51	12	24000	51000	45000	2100	າາ	Clear, TCLP Compliant	111
	Mog							-		12	24000+	31000	45000	2100	ZZ	clear, role compnant	111
		JAL	UA°	1 III.	oli li		SOUN	E SODIUM LAI	VII-9								
	ATTS	^		70		۰.	40044	1 1170 /DV /B4ED	000	•	10000	0000	0040	0000	0.5	01 1 1001	111
B17	Med NATTS	0	U	70	5.5	ა.5	10011	LU70/DX/MED	S62	6	10000	3800	3040	2200	00	Clear, Improved CRI	111
B17	Med	0	П	150	5 75	3.5	1000/	LU150/DX/MED	S54	6	15000	10500	9135	ววกก	GE.	Clear Improved CPI	111
	Mog	0		150	7.75			LU150/55/DX	S55	12	15000	10500	9135			Clear, Improved CRI Clear, Improved CRI	111 111
	NATTS			100	7.70	, 0	10002	20100/00/DX	000	12	10000	10000	0100	2200	00	olour, improvou om	
ED18	Mog	0	U	250	9.75	5.75	11785	LU250/DX	S50	12	15000	22500	20700	2200	65	Clear, Improved CRI	111
400 V	NATTS															, p	
ED28	Mog	0	U	400	9	5.18	19650	LU400/DX	S51	12	15000	37400	34400	2200	70	Clear, Improved CRI	111
E-Z	UX® H	GH	PR	ESU	RE S	0D	IUM L	AMPS (MERC	URY RET	ROF	IT)						
	NATTS							,									
ED28	Mog	0	U	150	9	5	49943	LUH150/EZ	H39	12	13000	12500	12000	1900	22 =	Clear, Energy-Saving	46 111
	ŭ															Retrofit for 175W Mercury	
215 V	NATS																
ED28	Mog	0	U	215	9	5	49939	LUH215/EZ	H37	12	12000	20200	18600	1900	22 🖚		47 111
360 /	NATTS															Retrofit for 250W Mercury	,
BT37	_	0	П	260	11 21	7 12	10012	LUH360/EZ	H33	6	24000	45000	40500	2100	25 -	Clear, Energy-Saving	48 111
D13 <i>1</i>	Mog	U	U	300	11.31	7.12	10012	LUN300/EZ	поо	U	24000	43000	40300	2100	20 🖚	Retrofit for 400W Mercury	
SOX	LOW P	RE	SSU	RE S	ODI	UM	LAM	PS									
	ATTS																
T16	BY22d	Ε		18	8.5	5.37	21294	SOX18	L69	16	18000	1800	1570	1800	0	Clear, Horizontal Burn	111
																±20° or Vertical	
35 W	ATTS																
T16	BY22d	Ε		35	12.25	7.25	21296	S0X35	L70	16	18000	4600	4000	1800	0	Clear, Horizontal Burn ±20° or Vertical	111
55 W	ATTS															±20 Of Vertical	
T16	BY22d	Е		55	16 75	, Q F	21297	SUX22	L71	16	18000	7650	6655	1800	n	Clear, Horizontal Burn	111
110	DIZZU	L		JJ	10.70	. J.J	£123 <i>1</i>	OUNJJ	L/I	10	10000	7000	0000	1000	U	±20° or Vertical	111
90 W	ATTS																
T21	BY22d	Ε		90	20.75	11.5	21298	SOX90	L72	9	16000	12750	11095	1800	0	Clear, Horizontal Burn ±20°	111
135 V	NATTS																
T21	BY22d	Ε		135	30.5	16.37	21299	SOX135	L73	9	16000	22000	19140	1800	0	Clear, Horizontal Burn ±20°	111
MER	CURY L	AN	IPS														
40/50) WATT	S															
B17	Med	0	U	50 40	5.12	3.12	12460	HR40/50DX45-46	H45	5	6000	1575 1140	1250 910	3900	50	40W on H45 Ballast, 50W on H46 Ballast, Deluxe Wi	113 hite
75 W	ATTS																
B17	Med	0	U	75	5.43	3.5	12461	HR75DX43	H43	5	16000	2700	2250	3900	50	Deluxe White	113

							ANSI		Rated		ſ	Color			
					Order		Ballast		Life	Lun	-	emp.		Additional Foot-	
Bulb	Base	LET OI	P Watts	MOL LCL	Code	Description	Туре	Qty. CBCI	P (hours)	Initial	Mean	ĸ	CRI	Information notes	Warning
MER	CURY	LAMP	S (con	ITINUED)											
100 V	WATT	S													
A23.5	Med	0 U	100	5.43 3.5	12464 H	HR100A38/A23	H38	5	18000	3700	2400 5	700	15	Clear	113
					12467 I	HR100DX38/A23	H38	5	18000	4000	2600 3	800	50	Deluxe White	113
B17	Med	0 U	100	5.43 3.5		HR100DX38/MED	H38	5	18000	4000	2600 3			Deluxe White	113
ED23.	5 Mog	0 U	100	7.5 5		HR100A38	H38		24000+	3850	2500 5			Clear	113
						HR100DX38	H38		24000+	4000	2600 3			Deluxe White	113
D40	NA 1	0 11	100	_		HR100DX38/CP	H38	4	24000+	4000	2600 3		50	Deluxe White, Consumer Pack	113
R40	Med	0 U	100	7		HR100RFL38 HR100RDXFL38	H38 H38	12 12	24000+ 24000+	2450 2450	2000 5 2050 3		15 50	Reflector Flood, 48° Beam Spread Deluxe White, Reflector WFL,	113
					30433 F	חחוטוחטארנייס	ПЭО	12	24000+	2430	2000 3	300	JU	140° Beam Spread	113
175 \	WATT:	S												Danii opioaa	
ED28	Mog	0 U	175	8.25 5	24048 1	HR175A39	H39	12	24000+	7850	6830 5	700	15	Clear	113
LDZ0	iviog	0 0	173	0.23 3		HR175A39/CP	H39	4	24000+	7850			15	Clear, Consumer Pack	113
						HR175DX39	H39	12	24000+	7800			50	Deluxe White	113
						HR175DX39/CP	H39	4	24000+	7800			50	Deluxe White, Consumer Pack	113
R40	Med	0 U	175	7	24058 H	HR175RFL39	H39	12	24000+	5700	4800 5	700	15	Clear, Reflector Flood, 40° Beam Spread	113
					33026 I	HR175RDXFL39	H39	12	24000+	5700	4350 3	900	50	Deluxe White, Reflector WFL, 120° Beam Spread	113
	Mog	0 U	175	7.5	36445 H	HR175RFL39/M	H39	12	24000+	5700	4800 5	700	15	Clear, Reflector Flood, 40° Beam Spread	113
250 \	WATT	S													
ED28	Mog	0 U	250	8.25 5	24068 H	HR250A37	H37	12	24000	11000	8250 5	700	15	Clear	113
	•				32127 H	HR250DX37	H37	12	24000+	11200	8400 3	900	50	Deluxe White	113
400 N	WATT:	S													
BT37	Mog	0 U	400	11.31 7	32313 H	HR400DX33/BT	H33	6	24000+	22600	14400 3	900	50	Deluxe White	113
ED37	Mog	0 U	400	11.31 7	23974 I	HR400A33	H33	6	24000+	21000	13400 5	700	15	Clear	113
					23998 H	HR400DX33	H33	6	24000+	22600	14400 3	900	50	Deluxe White	113
R52	Mog	0 U	400	11.75		1R400RDX33	H33	6	24000+	20800	13400 3	900	50	Reflector, Deluxe White, 160° Beam Spread	113
R60	Mog	0 U	400	10.12	33938 I	HR400RDXFL33	H33	6	24000+	15500	8950 3	900	50	Reflector WFL, Deluxe White, Clear Face, 110°	113
1000	WAT	ΓS													
BT56	Mog	0 U	1000	15.06 9.5		HR1000A36	H36		24000+	57000	28500 5			Clear	113
						HR1000DX36	H36	6	24000+	58000	29000 3			Deluxe White	113
						HR1000DX34	H34	6	16000	58300	29200 3	900	50	Deluxe White 28	113
SAF	T-GA	RD® M	ERCU	RY LAM	PS										
175 \	WATT:	S													
ED28	Mog	0 U	175	8.25 5	43391 H	HT175DX39	H39	12	16000	7800	6800 3	900	50	Deluxe White	114
	WATT														
ED37	Mog	0 U	400	11.31 7	43363 I	HT400DX33	H33	6	24000	22600	14400 3	900	50	Deluxe White	114
						S (INCANDESCI									
			DAI!	VOII D	7.41711	O (INGAINDEOGI	-1/11-1/1		' /						
	WATT		400		45450	100400/84		0.4	10000	0000	4000	000		D 14/1/2 4001/	44-
ED24	Med	0 U	160	7 4.5	45178 H	HSB160/M		24	12000	2300	1600 3	900	50	Deluxe White, 120V 9	115
	WATT														
ED28	Med	0 U	250	8.5 5.18		HSB250M		12	12000	5000	3750 3			Deluxe White, 120V 9	115
					45176 l	HSB250		12	12000	5000	3750 3	900	50	Deluxe White, 120V 9	115

D #	_	15T 01	D 14/	1401	101	Order		ANSI Ballast		Rated Life	Lu	mens	Color Temp.	ODI	Additional	Foot-	
Bulb	Base		P Watts				Description	Туре	Qty. C			l Mean	K	CKI	Information	notes	Warning
			BALL	.A51	Eυ	LAWIP	S (INCANDESCE	NI K	IIKU	IFII) (CON	TINUEL	0)					
	WATTS																
BT37	Mog	0 U	450		7.37	40122 F	1SB450		6	16000	9100	8280	3900	50	Deluxe White, 120V	9	115
750	WATTS																
R57	Mog	0 U	750	12.75	8.37	44012 H	ISB750R/120		6	16000	14000	11200	3900	50	Deluxe White, Reflector Flood, 120V, 130° Beam	9	115
EXP	ORT LA	MPS															
MET	AL HAI	LIDE															
BD17	E27	ΕU	100	5.43	3.43	18684 N	MXR100/C/U/27	M90	6	15000	8500	5900	3200	70	Coated		117
BT56	E40	S U	1000				VIVR1000/U/40	M47	6		V00080	86000V	4000	65	Clear		121
										11000H1							
						41829 N	VIVR1000/C/U/40	M47	6	15000V1 11000H		80000V 73000H	3700	65	Coated		121
ED17	E27	0 VB	U 32	5.43	3.43	16893 N	MXR32/C/VBU/0/27	M100	6	10000	2400		3200	70	Coated, protected		119
ED28	E40	ΕU	175	8.25	5	47762 N	MVR175/U/40	M57	12	10000V		8800V	4000	65	Clear	14	117
						47763 N	WVR175/C/U/40	M57	12	10000V	11700H	7400H 8400V	3000	70	Coated	14	117
						7//03 1	11111175/0/0/40	IVIJI	12		11900H	7900H	5500	70	odateu	17	117
						17714 N	MVR175/SP30/U/40	M57	12	10000V		7600V	3000	70	RE730 Phosphor Coating	14	117
											10300H	6500H					
						44542 N	MVR250/U/40	M58	12		20800V 19100H	13500V	4200	65	Clear	14	117
			250	8.25	5	44543 N	VIVR250/C/U/40	M58	12			13000V	3900	70	Coated	14	117
			200	0.20	Ü		111111111111111111111111111111111111111	11100			18200H		0000	, ,	oditou	••	
						17715 N	MVR250/SP30/U/40	M58	12		18000V 16600H	11500V 10600H	3000	70	RE730 Phosphor Coating	14	117
ED37	E40	S U	400	11.5	7	43907 N	MVR400/U/40	M59	6			23500V	4000	65	Clear	14	121
							,.,			15000H							
						43908 N	VIVR400/C/U/40	M59	6			23000V	3700	70	Coated	14	121
		V	400	11.5	7	/1006U II	WVR400/VBU/40	M59	6	15000H 20000	32200H 41000	26500	4000	65	Clear, Vertical Base Up ±1	Б°	121
		V	400	11.5	'		WVR400/C/VBU/40	M59	6	20000	41000	25000			Coated, Vertical Base Up		121
							MVR400/VBU/STB/40	M59	6	20000	41000	31000			Clear, StayBright®		121
							MVR400/C/VBU/STB/40	M59	6	20000	41000	29500			Coated, StayBright®		121
		U	400	11.5	7		MVR400/SP30/U/40	M59	6	20000V	31000V	18600V			RE730 Phosphor Coating	14	121
		VD	U 400	11 5	7	21//0 8	MVR400/SP30/VBU/40	M59	6	15000H 20000	28500H 34000	1/100H 20400	2200	70	RE730 Phosphor Coating,		121
		VD	0 400	11.5	1	2144U N	VIVK400/3P30/VBU/40	IVIOS	0	20000	34000	20400	3200	70	Vertical Base Up ±15°		121
		0 VB	U 400	11.5	7	18709 N	MPR400/VBU/0/40	M59	6	20000	40000	24900	3400	65	Clear, Vertical Base		119
															Up ±15°, Shrouded A		
LUC	ALOX®	HIGH	PRES	SUR	E S	DDIUN	И										
ED18	E40	0 U	250	9.75			.U250/40	S50	12	24000+	28000	27000			Clear		111
			400	9			.U400/40	S51	12	24000+	51000	45000			Clear		111
E21	E27	0 U	70				.U70/90/27	0.5-	12	24000+	6000		1900		Clear		111
	5 E40	0 U	150	7.75			.U150/55/40	S55	12	24000+	16000	14400			Clear		111
E25 ED28	E40 E40	0 U	1000				.U1000/40 .U150/100/D/40	S52	6 12	24000+		126000 12600			Clear Diffuse		111
בטעא	E4U	UU	150 250	9.13			.U150/100/D/40 .U250/D/40	S50	12	24000+ 24000+	14000 26000	23400			Clear		111 111
ED37	E40	0 U	400				.U400/D/40	S51	6	24000+	47500	42750			Diffuse		111
T14.5		0 U	150				.U150/100/40		12	24000+	15000	13500			Clear		111
	•			J0			,,			= .0001							



								ANSI			Rated			Color			
						Order		Ballast			Life		nens	Temp.		Additional	Foot-
Bulb	Base	LET OP	Watts	MOL	LCL	Code	Description	Туре	Qty. (CBCP	(hours)	Initial	Mean	K	CRI	Information	notes Warning
EXP	ORT LA	MPS (c	ONTI	NUED)												
E-Z	LUX® L	UCALO	K® H	IGH	PRI	SURE	SODIUM (N	MERCURY	RET	ROF	IT)						
ED28	E40	0 U	215	9	5	49941 L	UH215/D/EZ/40		12		12000	20200	18600	1900	22 🖚	Diffuse, Energy-Saving Retrofit for 250W Mercur	111 y
MEI	CURY																
ED37	E40	0 U	400	11.42	7.13	32294 H	IR400DX33/40	H33	6	2	4000+	22600	14400	3900	50	Deluxe White	113

FOOTNOTES

Footnote

- 9 Do not use this lamp in fixtures designed for less than rated lamp wattage.
- 14 Life shown is for vertical ±15° operation.
- 16 Approximate lumen ratings at 45° burning position: Initial 145,000. Mean 124,000.
- 17 Rated life based on 5 or more burning hours per start.
- 28 Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.
- 32 Lamp will run at 400-watts when used on a linear reactor ballast
- 33 Rated life based on 11 hours per start.
- 38 Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE Representative for a list of approved ballasts and ignitors.
- 39 UV Control is a quartz material that effectively cuts UVB and UVC radiation.
- 42 Approximate lumen ratings at 45° burning position: Initial 153,000. Mean 139,000.
- 43 When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.
- 44 Rated life based on 7 hours per start
- 45 Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.
- 46 Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
 47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or
- 47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers of 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 48 Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

GENERAL INFORMATION

FIXTURE REQUIREMENTS – LAMP ENCLOSURE TYPE

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an "O" code can be operated in an "Open or Enclosed" fixture. Lamps with a "S" code can be used in open fixtures only if operated in a vertical ±15° burn position. Lamps in all other burn positions must be suitably enclosed.

- O = Open or Enclosed Fixtures
- E = Enclosed Fixtures Only
- S = Lamps operated in a vertical position (Base Up or Down), ±15°, can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only".

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) per UL Standard #1572 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position $\pm 15^{\circ}$ that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

PROTECTION OF BULBS FROM MOISTURE

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaries. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

RATED LIFE

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours. For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened as follows:

5 hrs/start: approx. life 75% of rating 2½ hrs/start: approx. life 56% of rating 1¼ hrs/start: approx. life 42% of rating

LUMENS-LUMENS LISTED ARE REFERENCE LUMENS

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp

GENERAL INFORMATION (CONTINUED)

performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

BALLASTS

HID lamps (except E-Z-Merc®) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox®, Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor® will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

START CHARACTERISTICS

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

RESTART CHARACTERISTICS

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox® LU1000 requires 2 minutes and E-Z Lux® lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH®, when the power is immediately reapplied, there will be a delay of 10 to 15 minutes before the lamps reach the 90% light output level. PulseArc® lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

OPERATING POSITIONS AND CODES

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

U = Universal burning position

HBU = Horizontal -15° to Base Up

HBD = Horizontal +15° to Base Down

HOR = Horizontal ±15°

 $H45 = Horizontal to \pm 45^{\circ} only$

VBU = Vertical Base Up ±15°

VBD = Vertical Base Down ±15°

If no special burn position is noted, the burn position is universal.

HID COLOR

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp to lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor® CMH® for better performance (page 3-9). Contact your local GE Lighting representative for more information.

EXPORT BASE LAMPS (/27 AND /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by "/27" or "/40" at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

OPERATING NOTES

E-Z LUX® LAMPS

These high pressure sodium lamps should be operated only on certain mercury ballasts, as indicated below.

LUH110/EZ: use only with the following types of 125-watt mercury ballasts: high-reactance lag-type autotransformers or 220-volt or greater reactors.

LUH150/EZ: use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH215/EZ: use only with the following types of H37 250-watt mercury ballasts: high reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH360/EZ: use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

MXR32 METAL HALIDE LAMP AND ELECTRONIC BALLAST

MXR32 lamps must be operated on GE Lighting's special, high power factor electronic ballast, HAL32/120. Outside dimensions for the ballast are $9\frac{1}{4}$ " long, $3\frac{1}{8}$ " wide and $1\frac{3}{4}$ " high.

SAF-T-GARD® MULTI-VAPOR® AND SAF-T-GARD® MERCURY LAMPS

Caution: If the outer glass envelope of a Saf-T-Gard® lamp is broken, the arc tube will self-extinguish, but the supporting structure will still be electrically connected. Be sure power is off and the lamp has cooled before removing the lamp to avoid possible electrical shock from contact with the arc tube support and to avoid risk of burn from the hot arc tube.

ARCSTREAM® METAL HALIDE LAMPS

Arcstream® tubular-shaped lamps must be used in suitably-enclosed fixtures with UV-absorbing cover glass. Enclosed fixtures must be capable of containing fragments of hot quartz or glass (up to 1100°C) in the unusual event of the outer bulb shattering. Also see complete Warning and Caution Notices on metal halide lamps.

WARNING NOTICES

THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE. General Electric

Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

HID LAMPS - GENERAL

WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures - as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100° C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see "Additional Information" column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in "Lamp Enclosure Type" on Page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously-operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

Mercury Lamps

burning position.

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase. Mercury lamps are not position-sensitive and may be operated in any

Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

LAMP ENCLOSURE TYPE

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100° C) in accordance with UL Standard #1572 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position $\pm 15^\circ$ that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

IMPORTANT NOTICE

In accordance to Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except High Pressure, Low Pressure Sodium Lamps, and Saf-T-Gard® Multi-Vapor Lamps.

"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, and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available."

WARNING AND CAUTION NOTICES

101 - Arcstream®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury

Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

- · Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

102 - Arcstream® G12

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury.

Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- · Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

103 - Arcstream® Rx7s

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

104 - CMH® G12 and Mini

A WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast see instructions

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- · Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- · Do not use beyond rated life
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

105 - CMH® HW HPS

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- · Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

106 - CMH® HW PA

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- · Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp

- Do not use beyond rated life
- Do not turn on lamp until fully installed

A CAUTION

Risk of hurn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

107 - CMH® PAR20-30

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast see instructions

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- · Do not use beyond rated life
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

• Do not use lamp if outer glass is scratched or broken

108 - CMH® PAR38

A WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- · Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

• Do not use lamp if outer glass is scratched or broken

109 - CMH® TD

A WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

110 - Kolorarc

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

- · Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- · Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

111 - Lucalox[®]

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium - chemical burn risk

Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

112 - Lucalox® HO

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast see instructions

Contains sodium - chemical burn risk

Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- · Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- · Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

113 - Mercury

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- · Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

114 - Mercury Saf-T-Gard®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- · Do not use lamp if outer glass is scratched or broken
- · Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- · Do not use excessive force when installing lamp

115 - Mercury Self-Ballasted

A WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- · Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

116 - QMH E-rated Kr85 and CMH

A WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

117 - QMH HOR Enclosed

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

118 - QMH LW

WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

- Do not use lamp if outer glass is scratched or broken
- · Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

119 - QMH Protected

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- · Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

120 - QMH Protected Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- · Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

121 - QMH S-rated

A WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

▲ CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- · Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

122 - QMH S-rated Kr85

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product see instructions
- Do not use lamp if outer glass is scratched or broken
- · Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

123 - QMH S-rated Saf-T-Gard®

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

124 - Sport 1000W PAR64

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

• Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

- Wear safety glasses and gloves when handling Lamp
- Do not use lamp if outer glass is scratched or broken
- · Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

125 - Sport MBIL-CSI-CID

▲ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury.

Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

A CAUTION

Risk of burn

- · Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

• Do not use lamp if outer glass is scratched or broken

Philine

• Do not use excessive force when installing lamp

HID LAMPS CROSS REFERENCE

GE Description	Osram/Sylvania Description	Philips Description					
ORDER THIS	IF YOU CURRE	NTLY USE					
GE LAMP	THESE LAMPS						
STANDARD AND EC	OLUX® HPS LAMPS						
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LU35/MED	LU35/MED	C35S76/M					
LU35/D/MED	LU35/D/MED	C35S76/D/M					
LU50/MED	LU50/MED	C50S68/M					
LU50/D/MED	LU50/D/MED	C50S68/M					
LU50	LU50/ECO	C50S68/ALT0					
LU50/D	LU50/D	C50S68/D					
LU70/MED	LU70/MED	C70S62/M					
LU70/D/MED	LU70/D/MED	C70S62/D/M					
LU70/ECO	LU70/ECO	C70S62/ALT0					
LU70/ECO/NC	LU70/PLUS/ECO	_					
LU70/D	LU70/D	C70S62/D					
LU100/MED	LU100/MED	C100S54/M					
LU100/D/MED	LU100/D/MED	C100S54/D/M					
LU100/ECO	LU100/ECO	C100S54/ALT0					
LU100/ECO/NC	LU100/PLUS/ECO	_					
LU100/D	LU100/D	C100S54/D					
LU150/MED	LU150/55/MED	CC150S55/M					
LU150/D/MED	LU150/55/D/MED	C150S55/D/M					
LU150/55/ECO	LU150/55/ECO	C150S55/ALTO					
LU150/ECO/NC	LU150/55/PLUS/ECO	_					
LU150/55/D	LU150/55/D	C150S55/D					
LU150/100	LU150/100	C150S56/ALTO					
LU200/ECO	LU200/ECO	C200S66					
LU200/ECO/NC	LU200/PLUS/ECO						
LU250/ECO	LU250/ECO	C250S50					
LU250/ECO/NC	LU250/PLUS/ECO						
LU250/D	LU250/D	C250S50/D					

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LU150/55/SBY/XL LU150/551SBY C150S55/2
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LU250/SBY/XL LU250/SBY C250S50/2
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HID LAMPS CROSS REFERENCE (CONTINUED)

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CMH70/T/U/942/G12 MC70T6/U/G12/940 CDM70/T6/942	
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CMH150/T/U/830/G12 MC150T6/U/G12/830 CDM150/T6/830	
CMH150/T/U/942/G12 MC150T6/U/G12/940 CDM150/T6/942	
CMH70/TD/830/Rx7s MC70T6/DE/830 CDM70/TD/830	
CMH70/TD/942/Rx7s — CDM70/TD/942	
CMH150/TD/830/Rx7s MC150T6/DE/830 CDM150/TD/830	
CMH150/TD/942/Rx7s — CDM150/TD/942	
CMH20/TC/U/830/G8.5 — — — — — — — — — — — — — — — — — — —	
CMH39/TC/U/830/G8.5 MC39TC/U/G8.5/830 CDM35/TC/830	
CMH70/TC/U/830/G8.5 MC70TC/U/G8.5/830 CDM70/TC/830	
MULTI-VAPOR® PULSEARC® METAL HALIDE LAMPS MXR32C/VBU — — —	
MXR50/U/MED MP50/U/MED MH50/U/M	—
MXR50/C/U/MED MP50/C/U/MED MH50/C/U/M	—
MVR50/U/MED M50/U MH50/U/M	
MVR50/C/U/MED M50/C/U MH50/C/U/M	
MXR70/U/MED MH70/U/MED MH70/U/M	
MXR70/C/U/MED MH70/C/U/MED MH70/C/U/M	
MXR70/U/MED/O MP70/U/MED MP70/U/M	
MXR70/C/U/MED/O MP70/C/U/MED MP70/C/U/M	_
MXR100/U/MED M100/U/MRD MH100/U/M	_
MXR100/C/U/MED MH100/C/U/MED MH100/C/U/M	
MVR100/U/MED MH100/U/4K/MED —	
MVR100/C/U/MED — —	
MXR100/U/MED/O MP100/U/MED —	
MXR100/C/U/MED/O MP100/C/U/MED —	

GE	Osram/Sylvania	Philips
Description	Description	Description
ORDER THIS	IF YOU CURRE	
GE LAMP	THESE LA	
MULTI-VAPOR® PUL	SEARC® METAL HALI	DE LAMPS (CONTINUED)
MXR150/U/MED	M150/U/MED	MH150/U/M
MXR150/C/U/MED	M150/C/U/MED	MH150/C/U/M
MVR175/VBU/PA	_	MS175/BU/PS
MVR175/C/VBU/PA	_	_
MVR250/VBU/PA	MS250/PS/BU	MS250/BU/PS
MVR250/C/VBU/PA	MS250/C/PS/BU	_
MVR320/VBU/HO/PA	MS320/PS/BU	MS320/BU/PS
MVR320/C/VBU/HO/PA	MS320/C/PS/BU-HOR	MS320/C/BU/PS
MPR320/VBU/XHO/PA	MP320/350/PS/BU	_
MPR320/C/VBU/XHO/PA	MP320/350/C/PS/BU	_
MPR350/VBU/PA	MP320/350/PS/BU	_
MPR350/C/VBU/PA	MP320/350/C/PS/BU	_
MPR400/VBU/XHO/PA	MP350/400/PS/BU	_
MPR400/C/VBU/XHO/PA	MP350/400/C/PS/BU	_
MVR750/VBU/PA	MS750/PS/BU-HOR/BT37	
MVR750/C/VBU/PA	MS750/C/PS/BU-HOR/BT	
MVR1000/BT37/PA	_	MS1000/BU/BT37/PS
MULTI-VAPOR® ST	ANDARD METAL HA	ALIDE LAMPS
MVR175/U/MED	M175/U/MED	MH175/U/M
MVR175/C/U/MED	M175/C/U/MED	MH175/C/U/M
MVR175/U	M175/U	MH175/U
MVR175/C/U	M175/C/U	MH175/C/U
MVR175/HOR	MS175/HOR	MS175/HOR
MVR175/C/HOR	MS175/C/HOR	MS175/C/HOR
MVR250/U	M250/U	MH250/U
MVR250/C/U	M250/C/U	MH250/C/U
MVR250/SP30/U	_	_
MVR250/HOR	MS250/HOR	MS250/HOR
MVR250/C/HOR	MS250/C/HOR	MS250/C/HOR
MVR400/U	M400/U	MH400/U
MVR400/C/U	M400/C/U	MH400/C/U
MVR400/SP30/U	_	MH400/3K/U
MVR400/VBU	MS400/BU	MS400/BU
MVR400/VBD	MS400/BD	
MVR400/C/VBU	MS400/C/BU	MS400/C/BU&
MVR400/C/VBD	MS400/C/BD	
MVR400/HOR	MS400/HOR	MS400/HOR
MVR400/C/HOR	MS400/C/HOR	MS400/C/HOR
MVR400/SP30/HOR	MS400/3K/HOR	
MPR400/U	MD400/DII/DD	MP400/U
MPR400/VBU	MP400/BU/BD M1000/U	
MVR1000/U MVR1000/C/U	M1000/C/U	MH1000/U MH1000/C/U
MVR1000/VBU	MS1000/BU	MS1000/BU
MPR1000/VBU/0	MP1000/BU	
MVR1500/U/SPORTS	M1500/BU-HOR	MH1500BU



HID LAMPS CROSS REFERENCE (CONTINUED)

GE Description	Osram/Sylvania Description	Philips Description
ORDER THIS	IF YOU CURRE	NTLY USE
GE LAMP	THESE L	
DOUBLE-ENDED LA	AMPS	
ARC70/TD/730/R7S	HQI-DE70/WDX	CDM70/TD/830
ARC70/TD/743/R7S	_	MHN70/TD/840
ARC150/TD/730/R7S	HQI-DE150/WDX	CDM150/TD/830
ARC150/TD/742/R7S	HQI-DE150/NDX	MHN150/TD/840
SAFETY METAL HA	LIDE LAMPS	
MVT400/VBU	MPT400/BU	MHT400/U
MVT400/C/VBU	MPT400/C/BU	MHT400/C/U
MERCURY VAPOR	LAMPS	
HR40/50DX45-46	H45/46DL-40/50/DX	H46DL-40-50/DX
HR75DX43	H43AV-75/DX	H43AV-75/DX
HR75/100PFL43-44	_	
HR100DX38/E17	_	_
HR100A38/A23	_	_
HR100DX38/A23	H38AV-100/DX	H38MP-100/DX
HR100A38	H38HT-100	H38HT-100
HR100DX38	H38JA-100/DX	H38JA-100/DX
HT100DX38	H38JA-T100/DX	H38JA-T100/DX
HR100WDX38	H38JA-100/N	_
HR100RFL38	_	_
HR100RDXFL38	H38BP-100/DX	H38BP-100/DX
HR100PSP44	H44GS-100	H44GS-100
HR100PFL44	H44JM-100	
HR175A39	H39KB-175	H39KB-175
HR175DX39	H39KC-175/DX	H39KC-175/DX
HT175DX39	H39KC-T175/DX	H39KC-T175
HR175WDX39	H39KC-175/N	
HR175RFL39	_	H39BM-175
HR175RDXFL39	H39BP-175/DX	H39BP-175/DX
HR250A37	H37KB-250	H37KB-250
HR250DX37	H37KC-250/DX	H37KC-250/DX
HT250DX37	H37KC-T250/DX	H37KC-T250/DX
HR250WDX37	H37KC-250/N	

GE Description	Osram/Sylvania Description	Philips Description
ORDER THIS	IF YOU CURRE	•
GE LAMP	THESE LA	
MERCURY VAPOR		
HR400A33	H33CD-400	H33CD-400
HR400DX33	H33GL-400/DX	H33GL-400/DX
HR400DX33BT	_	_
HT400DX33	H33GL-T400/DX	H33GL-T400/DX
HR400WDX33	H33GL-400/N	_
HR400R33	_	_
HR400RDX33	_	H33DN-400/DX
HR400RDXFL33	_	H33FS-400/DX
HR400RSP33	_	_
HR400A33/T16	H33AR-400	_
HR700DX35	_	H35ND-700/DX
HR1000DX34	H34GV-1000	_
HR1000DX34	H34GW-1000/DX	H34GW-1000/DX
HR1000A36	H36GV-1000	H36GV-1000
HR1000DX36	H36GW-1000/DX	H36GW-1000/DX
HT1000DX36	H36GW-T1000/DX	H36GW-T1000/DX
SELF-BALLASTED I	MERCURY VAPOR LA	MPS
HSB160/M	_	_
HSB250	_	S250E28/DX
HSB250/M	_	S250E28/DX/M
HSB450	_	S450BT37/C
HSB750R/120	_	S750R57