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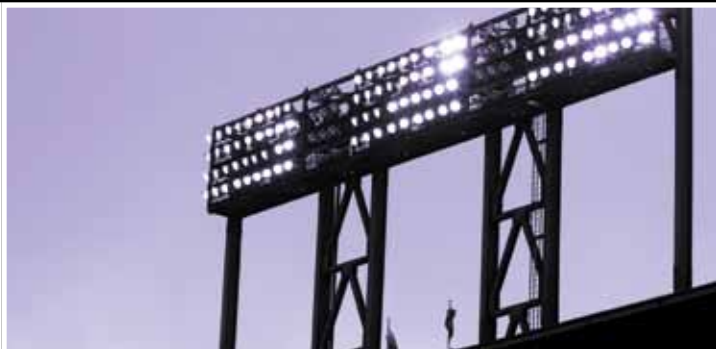


HIGH INTENSITY DISCHARGE



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how to read a table

BULB Designations indicate shape and size. Illustrations can be found on page 81 and at the top of each page.

BASE Indicates base type. Full base descriptions and illustrations can be found on page 81.

PRODUCT CODE Abbreviated product description can also be used for ordering. A key to abbreviations can be found on page 87.

PACKAGE QUANTITY Indicates minimum sell quantity and smallest shipping carton.

ANSI CODE The specific electrical characteristics of a lamp.

AVERAGE LIFE Average rated life expressed in hours.

MOL Indicates maximum overall length in inches.

COLOR TEMP. A term used to describe the color of a light source and is expressed in degrees "Kelvin" (K).

Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
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ProLume® Pulse Start Metal Halide

50 WATT

ED17	Med.	108228	1,13,14,19	MH50/U/MED/PS	Clear	1/12	M110/E	3400	2200	10000	5.45"	4000	65
		108232	1,13,14,19	MH50/C/U/MED/PS	Coated	1/12	M110/E	3300	2100	10000	5.45"	3700	70

70 WATT

ED17	Med.	108246	1,13,14,19	MH70/U/MED/PS	Clear	1/12	M98/E	5600	3600	15000	5.45"	4000	65
		108248	1,13,14,19	MH70/C/U/MED/PS	Coated	1/12	M98/E	5300	3400	15000	5.45"	3700	70

100 WATT

ED17	Med.	108254	1,13,14,19	MH100/U/MED/PS	Clear	1/12	M90/E	9000	5900	15000	5.45"	4000	65
		108256	1,13,14,19	MH100/C/U/MED/PS	Coated	1/12	M90/E	8500	5500	15000	5.45"	3700	70
ED28	Mogul	60003	1,13,14,19	MH100/U/MOG/PS	Clear	1/12	M90/E	9000	5900	15000	8.25"	4000	65

WATTS Indicates the power consumed by the lamp during operation.

FOOTNOTES & SYMBOLS Related footnotes can be found on page 87.

DESCRIPTION Bulb finish and other important information.

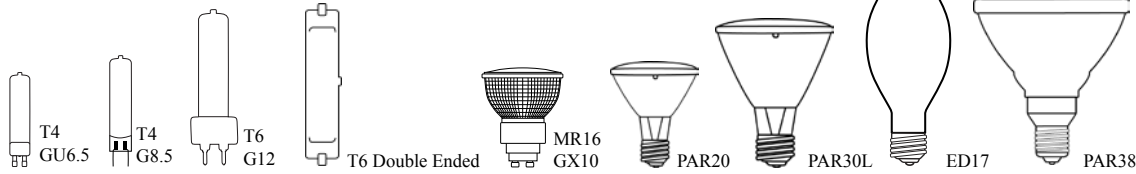
MEAN LUMENS The lamp's average light output at 40% of rated life.

PRODUCT NUMBER Use this product number when placing an order.

INITIAL LUMENS The lamp's average light output after the initial 100 hours of operation.

CRI An International scale from 0 to 100 that indicates the relative color rendering value of a light source. The Color rendering index expresses the degree to which colors will look "natural" under a given light source.

Metal Halide



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
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ProLume® Ceramic Discharge Metal Halide

20 WATT

T4	GU6.5	67010	†,1,12,19	CDM20/TC/830/GU6.5	Clear	1/24	C156/E	1750	1250	10000	2.21"	3000	85+
	G8.5	67012	†,1,12,19	CDM20/TC/830	Clear	1/24	C156/E	1750	1250	10000	3.15"	3000	85+
T6	G12	67013	†,1,12,19	CDM20/T6/830	Clear	1/12	C156/E	1750	1200	10000	3.94"	3000	85+
MR16	GX10	67019	†,3,12,19	CDM20/MR16SP/830/GX10	Spot	1/12	C156/O	1200	780	10000	2.56"	3000	85+
		67020	†,3,12,19	CDM20/MR16NFL/830/GX10	Narrow Flood	1/12	C156/O	1200	780	10000	2.56"	3000	85+
PAR20	Med.	67021	†,3,12,19	CDM20/P20/SP/830	Spot	1/24	C156/O	1200	780	10000	3.74"	3000	85+
		67022	†,3,12,19	CDM20/P20/FL/830	Flood	1/24	C156/O	1200	780	10000	3.74"	3000	85+

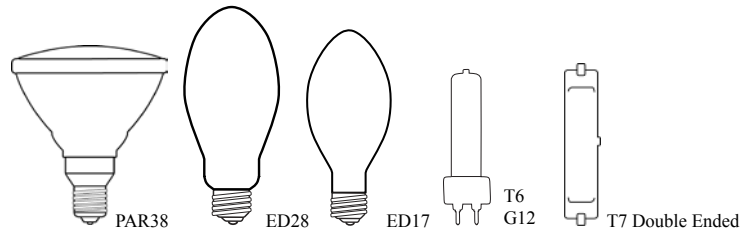
39 WATT

T4	GU6.5	67011	†,1,12,19	CDM35/TC/830/GU6.5	Clear	1/24	C130/E M130/E	3100	2100	12000	2.21"	3000	80+
	G8.5	67006	†,1,12,19	CDM35/TC/830	Clear	1/24	C130/E M130/E	3300	2200	12000	3.15"	3000	80+
T6	G12	67002	†,1,12,19	CDM35/T6/830	Clear	1/12	C130/E M130/E	3400	2400	12000	3.94"	3000	80+
	Rx7S	67016	†,1,12,19	CDM35/TD/830	Clear	1/12	C130/E M130/E	3100	2350	12000	4.69"	3000	80+
PAR20	Med.	67023	†,3,12,19	CDM35/P20/SP/830	Spot	1/24	C130/O M130/O	2100	1500	10000	3.74"	3000	80+
		67000	†,3,12,19	CDM35/P20/FL/830	Flood	1/24	C130/O M130/O	2100	1500	10000	3.74"	3000	80+
PAR30L	Med.	67001	†,3,12,19	CDM35/P30L/FL/830	Flood	1/6	C130/O M130/O	2200	1600	10000	4.80"	3000	80+
		223297	3,12	CDM35/P30L/SP/830/M	Spot Long Neck Major	1/6	M130/O	2200	1430	9000	4.75"	3000	81

70 WATT

ED17	Med.	281295	1,7,12	MHC70UMED/4K/M	Clear Major	1/12	M98/E M143/E	5900	4130	20000	5.44"	4000	92
T4	G8.5	67007	†,1,12,19	CDM70/TC/830	Clear	1/24	C/M98/E C/M139/E	6700	5100	12000	3.15"	3000	85+
T6	G12	67004	†,1,12,19	CDM70/T6/830	Clear	1/12	C/M98/E C/M139/E	6700	5600	12000	3.94"	3000	85+
		67014	†,1,12,19	CDM70/T6/942	Clear	1/12	C/M98/E C/M139/E	6600	5000	12000	3.94"	4200	90+
Rx7S	G12	67017	†,1,12,19	CDM70/TD/830	Clear	1/12	M85/E C/M139/E	6500	5200	12000	4.69"	3000	85+
		67003	†,1,12,19	CDM70/P30L/FL/830	Flood	1/6	C/M98/E C/M139/E	4850	3400	10000	4.80"	3000	85+
PAR30L	Med.	67024	†,1,12,19	CDM70/P30L/SP/830	Spot	1/6	C/M98/E C/M139/E	4850	3400	10000	4.80"	3000	85+
		67026	†,1,12,19	CDM70/P30L/FL/942	Flood	1/6	C/M98/E C/M139/E	4300	3200	10000	4.80"	4200	90+
		67025	†,1,12,19	CDM70/P30L/SP/942	Spot	1/6	C/M98/E C/M139/E	4300	3200	10000	4.80"	4200	90+
		67028	†,1,12,19	CDM70/P38/FL/830	Flood	1/6	C/M98/E C/M139/E	4800	3400	10000	5.43"	3000	85+
PAR38	Med.	67027	†,1,12,19	CDM70/P38/SP/830	Spot	1/6	C/M98/E C/M139/E	4800	3400	10000	5.43"	3000	85+
		67029	†,1,12,19	CDM70/P38/FL/942	Flood	1/12	C/M98/E C/M139/E	4500	3200	10000	5.43"	4200	90+
ED17	Med.	67008	†,3,12,19	CDM70/U/830/MED	Clear	1/12	C/M98/O C/M139/O	6200	4400	16000	5.43"	3000	85+

Metal Halide



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
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ProLume® Ceramic Discharge Metal Halide (cont'd)

100 WATT

ED17	Med.	281352	1,7,12	MHC100UMED/4K/M	Clear Major	1/12	M90/E M140/E	9000	6750	20000	5.44"	4000	92
PAR38	Med.	845681	3,12	CDM100/P38/FL/830/M	Flood Major	1/6	M90/O M140/O	6500	4550	10000	5.44"	3000	81
		845680	3,12	CDM100/P38/SP/830/M	Spot Major	1/6	M90/O M140/O	6500	4550	10000	5.44"	3000	81

150 WATT

ED17	Med.	377200	1,7,12	MHC150UMED/4K/M	Clear Major	1/12	M102/E M142/E	13000	9750	20000	5.44"	4000	92
		67009	†,1,12,19	CDM150/U/830/MED	Clear	1/12	C/M102/E C/M142/E	14000	10000	16000	5.43"	3000	85+
T6	G12	67005	†,1,12,27,19	CDM150/T6/830	Clear	1/60	C/M102/E C/M142/E	14000	11200	12000	3.94"	3000	85+
		67015	†,1,12,27,19	CDM150/T6/942	Clear	1/60	C/M102/E C/M142/E	13000	10400	10000	3.94"	4200	93+
T7	Rx7S	67018	†,1,12,19	CDM150/TD/830	Clear	1/12	M81/E C/M102/E C/M142/E	13500	10800	12000	5.43"	3000	85+

ProLume® Pulse Start Metal Halide

50 WATT

ED17	Med.	108228	1,13,14,19	MH50/U/MED/PS	Clear	1/12	M110/E	3400	2200	10000	5.45"	4000	65
		108232	1,13,14,19	MH50/C/U/MED/PS	Coated	1/12	M110/E	3300	2100	10000	5.45"	3700	70

70 WATT

ED17	Med.	108246	1,13,14,19	MH70/U/MED/PS	Clear	1/12	M98/E	5600	3600	15000	5.45"	4000	65
		108248	1,13,14,19	MH70/C/U/MED/PS	Coated	1/12	M98/E	5300	3400	15000	5.45"	3700	70

100 WATT

ED17	Med.	108254	1,13,14,19	MH100/U/MED/PS	Clear	1/12	M90/E	9000	5900	15000	5.45"	4000	65
		108256	1,13,14,19	MH100/C/U/MED/PS	Coated	1/12	M90/E	8500	5500	15000	5.45"	3700	70
ED28	Mogul	60003	1,13,14,19	MH100/U/MOG/PS	Clear	1/12	M90/E	9000	5900	15000	8.25"	4000	65

125 WATT

ED17	Med.	60007	†,1,13,14,15,19	MH125/HBU/MED/PS	Clear Horizontal Base Up	1/12	M150/E	12000	8400	15000	5.45"	4000	65
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150 WATT

ED17	Med.	108258	1,13,14,19	MH150/U/MED/PS	Clear	1/12	M102/E	14000	10500	15000	5.45"	4000	65
		108260	1,13,14,19	MH150/C/U/MED/PS	Coated	1/12	M102/E	13300	10000	15000	5.45"	3700	70
ED28	Mogul	108305	1,4,13,14,15,19	MH150/U/PS	Clear	1/12	M102/E	14000	10500	15000	8.25"	4000	65

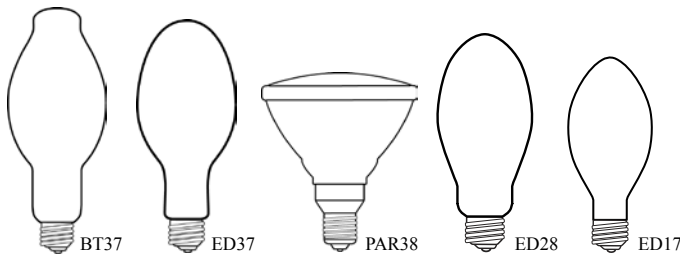
175 WATT

ED17	Med.	60002	1,4,13,14,15,19	MH175/BU/MED/PS	Clear Base Up	1/12	M152/E M137/E	17500	14000	15000	5.45"	4000	65
ED28	Mogul	108274	1,4,13,14,15,19	MH175/BU/PS	Clear Base Up	1/12	M152/E M137/E	17500	14000	15000	8.25"	4000	65
		60008	†,1,13,14,15,19	MH175/HBU/PS	Clear Horizontal Base Up	1/12	M152/E M137/E	15000	12500	15000	8.25"	4000	65

200 WATT

ED28	Mogul	108284	1,4,13,14,15,19	MH200/BU/PS	Clear Base Up	1/12	M136/E	21000	16800	15000	8.25"	4000	65
		60006	1,4,13,14,15,19	MH200/C/BU/PS	Coated Base Up	1/12	M136/E	20000	16000	15000	8.25"	3700	70

Metal Halide



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
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ProLume® Pulse Start Metal Halide (cont'd)

250 WATT

ED28	Mogul	108276	1,4,13,14,15,19	MH250/BU/PS	Clear Base Up	1/12	M153/E M138/E	25000	20000	15000	8.25"	4000	65
		60005	1,4,13,14,15,19	MH250/C/BU/PS	Coated Base Up	1/12	M153/E M138/E	23800	19000	15000	8.25"	3700	70
		60009	†,1,13,14,15,19	MH250/HBU/PS	Clear Horizontal Base Up	1/12	M153/E M138/E	21000	15000	15000	8.25"	4000	65

320 WATT

ED28	Mogul	108278	1,4,7,13,14,15,19	MH320/BU/PS	Clear Base Up	1/12	M154/E M132/E	33000	26000	20000	8.25"	4000	65
		60004	1,4,7,13,14,15,19	MH320/C/BU/PS	Coated Base Up	1/12	M154/E M132/E	31000	25000	20000	8.25"	3700	70
		60010	†,1,13,14,15,19	MH320/HBU/PS	Clear Horizontal Base Up	1/12	M154/E M132/E	31000	23000	15000	8.25"	4000	65

350 WATT

ED37	Mogul	108291	1,4,7,13,14,15,19	MH350/BU/PS	Clear Base Up	1/6	M131/E	37000	29000	20000	11.50"	4000	65
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400 WATT

ED28	Mogul	60012	†,1,7,13,14,19	MH400/U/ED28/PS	Clear	1/12	M155/E M135/E	39000	27000	20000	8.25"	4000	65
ED37	Mogul	60011	†,1,7,13,14,19	MH400/U/PS	Clear	1/6	M155/E M135/E	39000	27000	20000	11.50"	4000	65
		108280	1,4,6,7,13,14,15,19	MH400/BU/PS	Clear Base Up	1/6	M155/E M135/E	44000	35000	20000	11.50"	4000	65

450 WATT

ED37	Mogul	60013	†,1,7,13,14,15,19	MH450/BU/PS	Clear Base Up	1/12	M144/E	50000	37500	20000	11.50"	4000	65
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750 WATT

ED37	Mogul	60001	1,4,13,14,15,19	MH750/BU/PS	Clear Base Up	1/6	M149/E	75000	55000	10000	11.50"	4000	65
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875 WATT

BT37	Mogul	60014	†,1,13,14,19	MH875/U/PS	Clear	1/6	M166/E	96000	82500	15000	11.50"	4000	65
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1000 WATT

BT37	Mogul	60015	†,1,13,14,19	MH1000/U/PS	Clear	1/6	M141/E	110000	96000	15000	11.50"	4000	65
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ProLume® Protected Metal Halide

50 WATT

ED17	Med.	108266	3,13,14,19	MP50/U/MED/PS	Clear	1/12	M110/O	3300	2100	10000	5.45"	4000	65
		60505	3,13,14,19	MP50/C/U/MED/PS	Coated	1/12	M110/O	3200	2000	10000	5.45"	3700	70

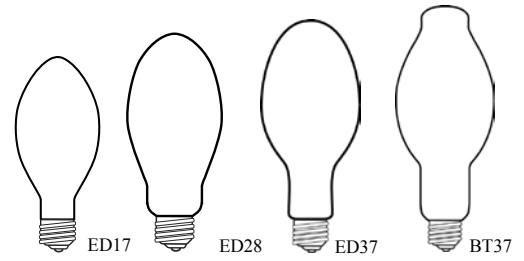
70 WATT

ED17	Med.	108268	3,13,14,19	MP70/U/MED/PS	Clear	1/12	M98/O	5300	3400	12000	5.45"	4000	65
		60508	3,13,14,19	MP70/C/U/MED/PS	Coated	1/12	M98/O	5000	3300	12000	5.45"	3700	70
PAR38	Med.	108250	3,5,13,19	MP70/PAR38/FL/4K	Clear Flood	1/12	M98/O	10000cd	-	10000	5.45"	4000	65

100 WATT

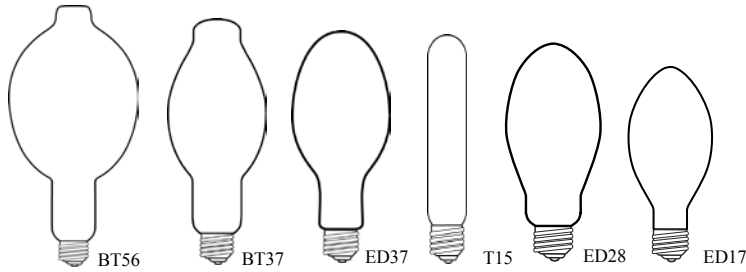
ED17	Med.	108270	3,13,14,19	MP100/U/MED/PS	Clear	1/12	M90/O	8500	5500	15000	5.45"	4000	65
		60507	3,13,14,19	MP100/C/U/MED/PS	Coated	1/12	M90/O	8100	5300	15000	5.45"	3700	70
PAR38	Med.	108252	3,5,13,19	MP100/PAR38/FL/4K	Clear Flood	1/12	M90/O	12000cd	-	10000	5.45"	4000	65

Metal Halide



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
ProLume® Protected Metal Halide (cont'd)													
150 WATT													
ED17	Med.	108272	3,13,14,19	MP150/U/MED/PS	Clear	1/12	M102/O	13300	10000	15000	5.45"	4000	65
		60503	3,13,14,19	MP150/C/U/MED/PS	Coated	1/12	M102/O	12600	9500	15000	5.45"	3700	70
175 WATT													
ED17	Med.	108282	3,13,14	MP175/U/MED	Clear	1/12	M57/O	14000	9100	10000	5.45"	4000	65
		90402	†,3,13,14,15,26	MP175/U/MED/CSTF	Clear Teflon® CoverShield®	1/12	M57/O	14000	9100	10000	5.45"	4000	65
ED28	EX39	108286	3,13,15,17	MP175/BU	Clear Base Up	1/12	M57/O	14000	9100	10000	8.25"	4000	65
		90400	†,3,13,14,15,26	MP175/BU/CSTF	Clear Base Up Teflon® CoverShield®	1/12	M57/O	14000	9100	10000	8.25"	4000	65
		60515	†,4,13,14,15,19	MP175/BU/PS	Clear Base Up	1/12	M152/O M137/O	16000	12800	15000	8.25"	4000	65
200 WATT													
ED28	EX39	60511	3,13,14,15,17,19	MP200/BU/PS	Clear Base Up	1/12	M136/O	20000	16000	15000	8.25"	4000	65
		60509	3,13,14,15,17,19	MP200/C/BU/PS	Coated Base Up	1/12	M136/O	19000	15200	15000	8.25"	3700	70
250 WATT													
ED28	EX39	108288	3,13,15,17	MP250/BU	Clear Base Up	1/12	M58/O	21800	14200	10000	8.25"	4000	65
		60710	3,13,15,17	MP250/C/BU	Coated Base Up	1/12	M58/O	20000	13000	10000	8.25"	3700	70
		108298	3,13,14,15,17,19	MP250/BU/PS	Clear Base Up	1/12	M153/O M138/O	23800	19000	15000	8.25"	4000	65
		60510	3,13,14,15,17,19	MP250/C/BU/PS	Coated Base Up	1/12	M153/O M138/O	22600	17600	15000	8.25"	3700	70
		90401	†,3,13,14,15,26	MP250/BU/CSTF	Clear Base Up Teflon® CoverShield®	1/12	M58/O	21800	14200	10000	8.25"	4000	65
320 WATT													
ED28	EX39	108290	3,4,7,13,14,15,19	MP320/BU/PS	Clear Base Up	1/12	M154/O M132/O	31000	25000	20000	8.25"	4000	65
		60504	3,4,7,13,14,15,19	MP320/C/BU/PS	Coated Base Up	1/12	M154/O M132/O	29000	23000	20000	8.25"	3700	70
360 WATT													
ED37	EX39	108292	\$,3,7,8,13,15 17,25	MP360/BU/ES	Clear Base Up Energy Saver	1/6	M165/O M59/O	36000	23500	20000	11.50"	4000	65
400 WATT													
ED37	EX39	108294	3,7,13,15,17	MP400/BU	Clear Base Up	1/6	M59/O	36000	23500	20000	11.50"	4000	65
		60700	3,7,13,15,17	MP400/C/BU	Coated Base Up	1/6	M59/O	34000	22000	20000	11.50"	3700	70
		108296	3,4,6,7,13,14, 15,19	MP400/BU/PS	Clear Base Up	1/6	M155/O M135/O	41000	33000	20000	11.50"	4000	65
		60502	3,7,13,15,17,26	MP400/BU/CSTF	Clear Base Up Teflon® CoverShield®	1/6	M59/O	36000	23500	20000	11.50"	4000	65
450 WATT													
ED37	EX39	60512	†,3,7,13,14,15,19	MP450/BU/PS	Clear Base Up	1/6	M144/O	47000	35000	20000	11.50"	4000	65
575 WATT													
BT37	EX39	60513	†,3,7,13,14,15,19	MP575/BU/PS	Clear Base Up	1/6	M178/O	60000	45000	20000	11.50"	4000	65
750 WATT													
BT37	EX39	60501	3,4,13,15,19	MP750/BU/PS	Clear Base Up	1/6	M149/O	72000	52000	10000	11.50"	4000	65

Metal Halide



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
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ProLume® Protected Metal Halide (cont'd)

875 WATT

BT37	EX39	60514	†,3,7,13,14,15,19	MP875/BU/PS	Clear Base Up	1/6	M166/O	95000	72000	20000	11.50"	4000	65
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1000 WATT

BT56	EX39	60720	†,3,13,14,15,19	MP1000/BU	Clear Base Up	1/6	M47/O	110000	88000	10000	15.40"	4000	65
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ProLume® Standard Metal Halide

175 WATT

ED17	Med.	108262	1,13,17,21,22	MH175/U/MED	Clear	1/12	M57/E	14000	9100	10000	5.45"	4000	65
		108264	1,13,17,21,22	MH175/C/U/MED	Coated	1/12	M57/E	13300	8600	10000	5.45"	3700	70
ED28	Mogul	108200	1,13,17,21,22	MH175/U	Clear	1/12	M57/E	14000	9100	10000	8.25"	4000	65
		108202	1,13,17,21,22	MH175/C/U	Coated	1/12	M57/E	13300	8600	10000	8.25"	3700	70
		108602	1,13,17,21,22,26	MH175/U/CSTF	Clear, Teflon® CoverShield®	1/12	M57/E	14000	9100	10000	8.25"	4000	65

250 WATT

ED28	Mogul	108204	1,13,17,21,22	MH250/U	Clear	1/12	M58/E	21000	13700	10000	8.25"	4000	65
		108206	1,13,17,21,22	MH250/C/U	Coated	1/12	M58/E	20000	13000	10000	8.25"	3700	70
ED28	Mogul	108604	1,13,17,21,22,26	MH250/U/CSTF	Clear, Teflon® CoverShield®	1/12	M58/E	21000	13700	10000	8.25"	4000	65
		61200	1,13,21,22,19	MH250/BU/LU	LU Retrofit Base Up	1/12	S50/E	20000	13000	10000	8.25"	4000	65
	POMB	60303	x,1,9,13,17,19	MH250/HOR	Clear Horizontal	1/12	M58/E	23000	15000	10000	8.25"	4000	65
		60302	x,1,9,13,17,19	MH250/C/HOR	Coated Horizontal	1/12	M58/E	22000	14300	10000	8.25"	3700	70
T15	Mogul	108220	1,13,17,21,22	MH250/HBU/T15	Clear Horizontal Base Up	1/12	M58/E	21000	13700	10000	8.30"	4000	65

360 WATT

ED37	Mogul	108212	\$,1,7,8,9,13,15,17,25	MH360/BU/ES	Clear Base Up Energy Saver	1/6	M165/E M59/E	36000	23000	20000	11.50"	4000	65
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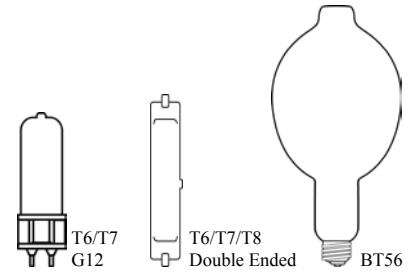
400 WATT

BT37	Mogul	849657	1,7,13,15	MS400/BU	Clear Base Up Major	1/6	M59/E	42000	27000	20000	11.50"	4000	65
ED18	Mogul	108218	1,7,13,15	MH400/HBU/ED18	Clear Horizontal Base Up	1/12	M59/E	36000	23000	20000	9.75"	4000	65
ED28	Mogul	108216	1,7,13,17,21,22	MH400/U/ED28	Clear	1/12	M59/E	36000	23000	20000	8.25"	4000	65
		60201	1,7,13,17,21,22	MH400/C/U/ED28	Coated	1/12	M59/E	34000	22000	20000	8.25"	3700	70
ED37	Mogul	108208	1,7,13,17,21,22	MH400/U	Clear	1/6	M59/E	36000	23000	20000	11.50"	4000	65
		108210	1,7,13,17,21,22	MH400/C/U	Coated	1/6	M59/E	34000	22000	20000	11.50"	3700	70
		61201	1,13,21,22,19	MH400/BU/LU	LU Retrofit Base Up	1/12	S51/E	38000	24700	10000	11.50"	4000	65
		108600	1,7,13,17,21,22,26	MH400/U/CSTF	Clear, Teflon® CoverShield®	1/6	M59/E	36000	23000	20000	11.50"	4000	65
		POMB	60301	x,1,7,9,13,17,19	MH400/C/HOR	Coated Horizontal	1/6	M59/E	36800	23900	20000	11.50"	3700

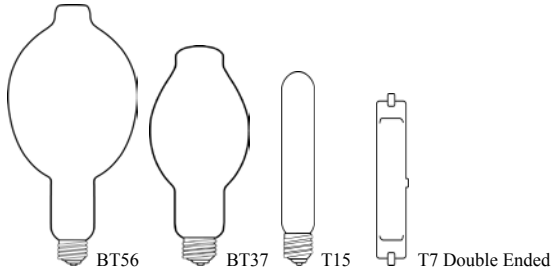
1000 WATT

BT37	Mogul	108226	1,13,17,21,22,19	MH1000/U/BT37	Clear	1/6	M47/E	110000	71000	12000	11.50"	4000	65
BT56	Mogul	108222	1,13,17,21,22,19	MH1000/U	Clear	1/6	M47/E	110000	71000	12000	15.40"	4000	65

Metal Halide

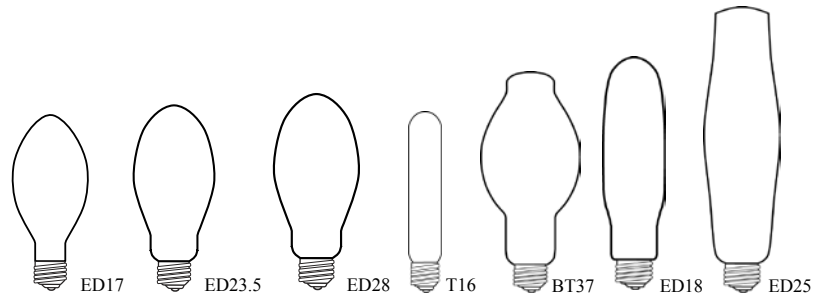


Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
ProLume® Standard Metal Halide (cont'd)													
1500 WATT													
BT56	Mogul	837405	1,13,15	MH1500/HBU	Clear Base Up/ Horizontal Major	1/6	M48/E	165000	140000	3000	15.40"	3900	65
		108214	1,13,15,19	MH1500/BU	Clear Base Up	1/6	M48/E	161000	136000	3000	15.40"	3400	65
ProLume® Single Ended Metal Halide													
70 WATT													
T6	G12	108434	1,2,12,13,24,19	MH70SE/UVS/3K	Clear UV-Stop	1/24	M85/E	5600	3600	10000	4.30"	3200	70
		108428	1,2,12,13,24,19	MH70SE/UVS/4K	Clear UV-Stop	1/24	M85/E	5600	3600	10000	4.30"	4200	70
150 WATT													
T7	G12	108430	1,2,12,13,24,19	MH150SE/UVS/3K	Clear UV-Stop	1/24	M81/E	14000	10500	10000	4.30"	3200	65
		108432	1,2,12,13,24,19	MH150SE/UVS/4K	Clear UV-Stop	1/24	M81/E	14000	10500	10000	4.30"	4200	65
ProLume® Double Ended Metal Halide													
70 WATT													
T6	R7S	108402	1,2,13,24,19	MH70DE/UVS/3K	Clear UV-Stop	1/24	M85/E	5600	3400	10000	4.65"	3000	70
		108400	1,2,13,24,19	MH70DE/UVS/4K	Clear UV-Stop	1/24	M85/E	5600	3600	10000	4.65"	4000	70
100 WATT													
T7	R7S	108408	x,1,2,13,24,19	MH100DE/UVS/3K	Clear UV-Stop	1/24	M91/E	8000	4680	10000	4.65"	3000	70
		108406	x,1,2,13,24,19	MH100DE/UVS/4K	Clear UV-Stop	1/24	M91/E	8000	5200	10000	4.65"	4000	70
150 WATT													
T7	R7S	108412	1,2,13,24,19	MH150DE/UVS/3K	Clear UV-Stop	1/24	M81/E	12000	8400	10000	5.37"	3000	70
		108410	1,2,13,24,19	MH150DE/UVS/4K	Clear UV-Stop	1/24	M81/E	12000	8400	10000	5.37"	4200	70
250 WATT													
T8	FC2	108414	1,13,24,19	MH250DE/4K	Clear	1/24	M80/E	20000	13000	8000	6.42"	4200	70



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
ProLume® Color Metal Halide													
150 WATT													
T7	R7S	108422	1,2,13,24,19	MH150DE/UVS/BDX	Blue UV-Stop	1/24	M81/E	-	-	8000	3.37"	-	-
		108424	1,2,13,24,19	MH150DE/UVS/GDX	Green UV-Stop	1/24	M81/E	-	-	8000	3.37"	-	-
		108426	x,1,2,13,24,19	MH150DE/UVS/MDX	Magenta UV-Stop	1/24	M81/E	-	-	8000	3.37"	-	-
400 WATT													
BT37	Mogul	61001	x,1,13,17,21,19	MH400/BU/BDX	Blue	1/6	M59/E	-	-	5000	11.50"	-	-
		61002	x,1,13,17,21,19	MH400/BU/GDX	Green	1/6	M59/E	-	-	5000	11.50"	-	-
1000 WATT													
BT56	Mogul	61004	x,1,13,17,21,19	MH1000/BU/BDX	Blue	1/6	M47/E	-	-	5000	15.37"	-	-
		61005	x,1,13,17,21,19	MH1000/BU/GDX	Green	1/6	M47/E	-	-	5000	15.37"	-	-
ProLume® Aquarium Metal Halide													
150 WATT													
T7	R7S	108420	1,2,13,19	MH150DE/UVS/10K	Clear UV-Stop	1/24	M81/E	9000	-	8000	5.37"	10000	80
175 WATT													
T15	Mogul	108418	1,13,19	MH175/U/T15/10K	Clear	1/12	M57/E	10500	-	10000	8.31"	10000	80
400 WATT													
T15	Mogul	108416	1,13,19	MH400/U/T15/10K	Clear	1/12	M59/E	25000	-	10000	9.76"	10000	90

High Pressure Sodium Low Pressure Sodium

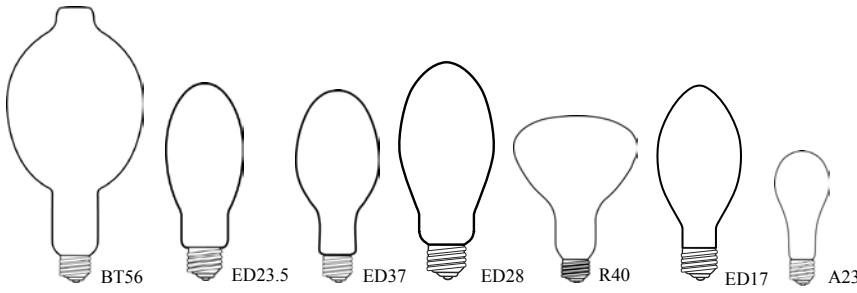


Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
ProLume® High Pressure Sodium													
35 WATT													
ED17	Med.	108102	11,14,16	LU35/MED	Clear	1/12	S76	2200	1980	16000	5.45"	2000	20
		108103	11,14,16	LU35/MED/D	Diffused	1/12	S76	2000	1800	16000	5.45"	2000	20
50 WATT													
ED17	Med.	108104	11,14,16	LU50/MED	Clear	1/12	S68	3800	3420	24000	5.45"	2000	20
		108105	x,11,14,16	LU50/MED/D	Diffused	1/12	S68	3400	3060	24000	5.45"	2000	20
ED23.5	Mogul	208120	11,14,16	LU50	Clear	1/12	S68	3800	3420	24000	7.75"	2000	20
		208121	x,11,14,16	LU50/D	Diffused	1/12	S68	3400	3060	24000	7.75"	2000	20
70 WATT													
ED17	Med.	108106	11,14,16	LU70/MED	Clear	1/12	S62	6000	5400	24000	5.45"	2000	20
		108107	x,11,14,16	LU70/MED/D	Diffused	1/12	S62	5500	4950	24000	5.45"	2000	20
ED23.5	Mogul	208122	11,14,16	LU70	Clear	1/12	S62	6000	5400	24000	7.75"	2000	20
		208123	x,11,14,16	LU70/D	Diffused	1/12	S62	5500	4950	24000	7.75"	2000	20
100 WATT													
ED17	Med.	108108	11,14,16	LU100/MED	Clear	1/12	S54	9000	8100	24000	5.45"	2000	20
		108109	x,11,14,16	LU100/MED/D	Diffused	1/12	S54	8100	7290	24000	5.45"	2000	20
ED23.5	Mogul	208124	11,14,16	LU100	Clear	1/12	S54	9000	8100	24000	7.75"	2000	20
		208125	x,11,14,16	LU100/D	Diffused	1/12	S54	8100	7290	24000	7.75"	2000	20
150 WATT													
ED17	Med.	108110	11,14,16	LU150/MED	Clear	1/12	S55	15000	13500	24000	5.45"	2000	20
		108111	x,11,14,16	LU150/MED/D	Diffused	1/12	S55	13500	12150	24000	5.45"	2000	20
ED23.5	Mogul	208126	11,14,16	LU150	Clear	1/12	S55	15000	13500	24000	7.75"	2000	20
		208402	11,14,16	LU150/SBY/LL	Clear Stand-by Twin Arc Tube	1/12	S55	15000	13500	48000	7.75"	2000	20
ED28	Mogul	64002	x,11,14,16	LU150/100	Clear	1/12	S55	15000	13500	24000	8.98"	2000	20
200 WATT													
ED18	Mogul	208128	11,14,16	LU200/S66	Clear	1/12	S66	22000	19800	24000	9.75"	2000	20
250 WATT													
ED18	Mogul	208130	11,14,16	LU250	Clear	1/12	S50	28000	25200	24000	9.75"	2000	20
400 WATT													
ED18	Mogul	208132	11,14,16	LU400	Clear	1/12	S51	48000	43200	24000	9.75"	2000	20
		208400	11,14,16	LU400/SBY/LL	Clear Stand-by Twin Arc Tube	1/12	S51	48000	43200	48000	9.75"	2000	20
1000 WATT													
ED25	Mogul	279547	11,14,16	LU1000	Clear	1/6	S52	130000	117000	24000	15.08"	2000	20

ProLume® Low Pressure Sodium

35 WATT													
T16	BY22d	821296	x	SOX35	Clear Major	1/16	L70	4600	4000	18000	12.25"	1800	0

Mercury Vapor



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg. Qty.	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
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ProLume® Mercury Vapor

50 WATT

ED17	Med.	108302	18,20,22	MV50DX	Deluxe White	1/12	H46	1600	1280	6000	5.45"	4000	45
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75 WATT

ED17	Med.	108304	18,22	MV75DX	Deluxe White	1/12	H43	2700	2250	12000	5.45"	4000	45
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100 WATT

A23	Med.	108340	18,22	MV100DX/A23	Deluxe White	1/12	H38	4000	2600	16000	5.45"	4000	45
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ED17	Med.	108306	18,22	MV100DX	Deluxe White	1/12	H38	4600	3600	16000	5.45"	4000	45
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ED23.5	Mogul	108308	18,22	MV100DXMOG	Deluxe White	1/12	H38	4600	3600	24000	7.50"	4000	45
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175 WATT

ED28	Mogul	108332	22	MV175CL	Clear	1/12	H39	7800	7250	24000	8.50"	5800	25
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		108310	18,22	MV175DX	Deluxe White	1/12	H39	8500	6900	24000	8.50"	4000	45
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250 WATT

ED28	Mogul	108334	22	MV250CL	Clear	1/12	H37	12800	10535	24000	8.50"	5800	25
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		108312	18,22	MV250DX	Deluxe White	1/12	H37	13500	11100	24000	8.50"	4000	45
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400 WATT

ED37	Mogul	108336	22	MV400CL	Clear	1/6	H33	22000	18900	24000	10.38"	5800	25
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		108314	18,22	MV400DX	Deluxe White	1/6	H33	23000	19100	24000	10.38"	4000	45
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1000 WATT

BT56	Mogul	869331	10,18,22	MV1000DX	Deluxe White Major	1/6	H36	58000	48500	24000	15.38"	4000	45
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ProLume® Mercury Vapor Reflector

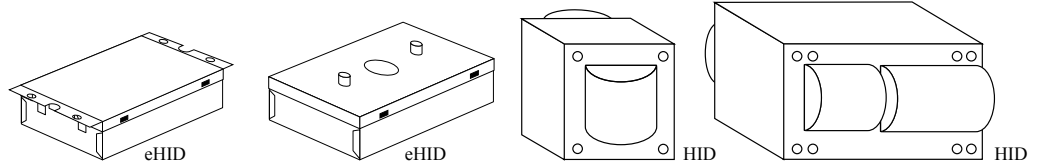
100 WATT

R40	Med.	108350	18	MV100DX/R40	Deluxe White Reflector	1/12	H38	2450	2000	16000	6.89"	5800	45
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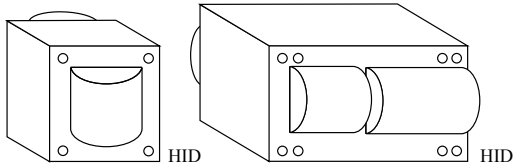
175 WATT

R40	Med.	108356	18	MV175DX/R40	Deluxe White Reflector	1/12	H39	6200	4900	24000	6.89"	5800	45
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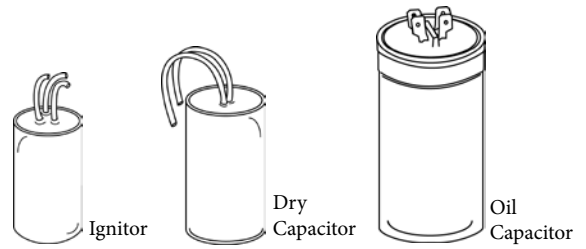
Ballasts



Product Number	Footnotes	Product Code	Description	Voltage	ANSI Code	Pkg. Qty.
ProLume® Ballasts						
Electronic Metal Halide Ballasts						
55504	†	C156/20E/MV/BE	20W MH Multi-Volt, Bottom Exit	120/277	C156/M156	1/1
55506	†	C156/20E/MV/SE	20W MH Multi-Volt, Side Exit	120/277	C156/M156	1/1
55508	†	C130/35E/MV/BE	35W MH Multi-Volt, Bottom Exit	120/277	C130/M130	1/1
55506	†	C130/35E/MV/SE	35W MH Multi-Volt, Side Exit	120/277	C130/M130	1/1
55512	†	C139/70E/MV/BE	70W MH Multi-Volt, Bottom Exit	120/277	C139/M139	1/1
55510	†	C139/70E/MV/SE	70W MH Multi-Volt, Side Exit	120/277	C139/M139	1/1
Pulse Start Metal Halide Ballast Kits						
55136		M90/100HX/4T/K	100W MH Quad-Tap Kit	120/208/240/277	M90	1/1
55134		M98/70HX/4T/K	70W MH Quad-Tap Kit	120/208/240/277	M98	1/1
55138		M102/150HX/4T/K	150W MH Quad-Tap Kit	120/208/240/277	M102	1/1
55132		M110/50HX/2T/K	50W MH Dual-Tap Kit	120/277	M110	1/1
55150		M131/350CWA/4T/K	350W MH Quad-Tap Kit	120/208/240/277	M131	1/1
55172	†	M131/350CWA/5T/K	350W MH Pent-Tap Kit	120/208/240/277/480	M131	1/1
55148		M132/320CWA/4T/K	320W MH Quad-Tap Kit	120/208/240/277	M132	1/1
55176	†	M132/320CWA/5T/K	320W MH Pent-Tap Kit	120/208/240/277/480	M132	1/1
55162		M135/400CWA/4T/K	400W MH Quad-Tap Kit	120/208/240/277	M135	1/1
55178	†	M135/400CWA/5T/K	400W MH Pent-Tap Kit	120/208/240/277/480	M135	1/1
55160		M138/250CWA/4T/K	250W MH Quad-Tap Kit	120/208/240/277	M138	1/1
55174	†	M138/250CWA/5T/K	250W MH Pent-Tap Kit	120/208/240/277/480	M138	1/1
55170	†	M150/125CWA/4T/K	150W MH Quad-Tap Kit	120/208/240/277	M150	1/1
Standard Metal Halide Ballast Kits						
55156		M47/1000CWA/4T/K	1000W MH Quad-Tap Kit	120/208/240/277	M47	1/1
55158		M47/1000CWA/5T/K	1000W MH 5-Tap Kit	120/208/240/277/480	M47	1/1
55140		M57/175CWA/4T/K	175W MH Quad-Tap Kit	120/208/240/277	M57	1/1
55164		M57/175CWAH/4T/K	175W MH Quad-Tap Hybrid Kit	120/208/240/277	M57	1/1
55142		M57/175CWA/5T/K	175W MH 5-Tap Kit	120/208/240/277/480	M57	1/1
55144		M58/250CWA/4T/K	250W MH Quad-Tap Kit	120/208/240/277	M58	1/1
55166		M58/250CWAH/4T/K	250W MH Quad-Tap Hybrid Kit	120/208/240/277	M58	1/1
55146		M58/250CWA/5T/K	250W MH 5-Tap Kit	120/208/240/277/480	M58	1/1
55152		M59/400CWA/4T/K	400W MH Quad-Tap Kit	120/208/240/277	M59	1/1
55168		M59/400CWAH/4T/K	400W MH Quad-Tap Hybrid Kit	120/208/240/277	M59	1/1
55154		M59/400CWA/5T/K	400W MH 5-Tap Kit	120/208/240/277/480	M59	1/1



Product Number	Footnotes	Product Code	Description	Voltage	ANSI Code	Pkg. Qty.
ProLume® Ballasts (cont'd)						
High Pressure Sodium Ballast Kits						
55120		S50/250CWA/4T/K	250W LU Quad-Tap Kit	120/208/240/277	S50	1/1
55122		S50/250CWA/5T/K	250W LU 5-Tap Kit	120/208/240/277/480	S50	1/1
55124		S51/400CWA/4T/K	400W LU Quad-Tap Kit	120/208/240/277	S51	1/1
55126		S51/400CWA/5T/K	400W LU 5-Tap Kit	120/208/240/277/480	S51	1/1
55128		S52/1000CWA/4T/K	1000W LU Quad-Tap Kit	120/208/240/277	S52	1/1
55130		S52/1000CWA/5T/K	1000W LU 5-Tap Kit	120/208/240/277/480	S52	1/1
55112		S54/100HX/4T/K	100W LU Quad-Tap Kit	120/208/240/277	S54	1/1
55110		S54/100R/120/K	100W LU 120V Kit	120	S54	1/1
55116		S55/150HX/4T/K	150W LU Quad-Tap Kit	120/208/240/277	S55	1/1
55114		S55/150R/120/K	150W LU 120V Kit	120	S55	1/1
55108		S62/70HX/4T/K	70W LU Quad-Tap Kit	120/208/240/277	S62	1/1
55106		S62/70R/120/K	70W LU 120V Kit	120	S62	1/1
55118		S66/200CWA/4T/K	200W LU Quad-Tap Kit	120/208/240/277	S66	1/1
55104		S68/50R/120/K	50W LU 120V Kit	120	S68	1/1
55102		S76/35R/120/K	35W LU 120V Kit	120	S76	1/1



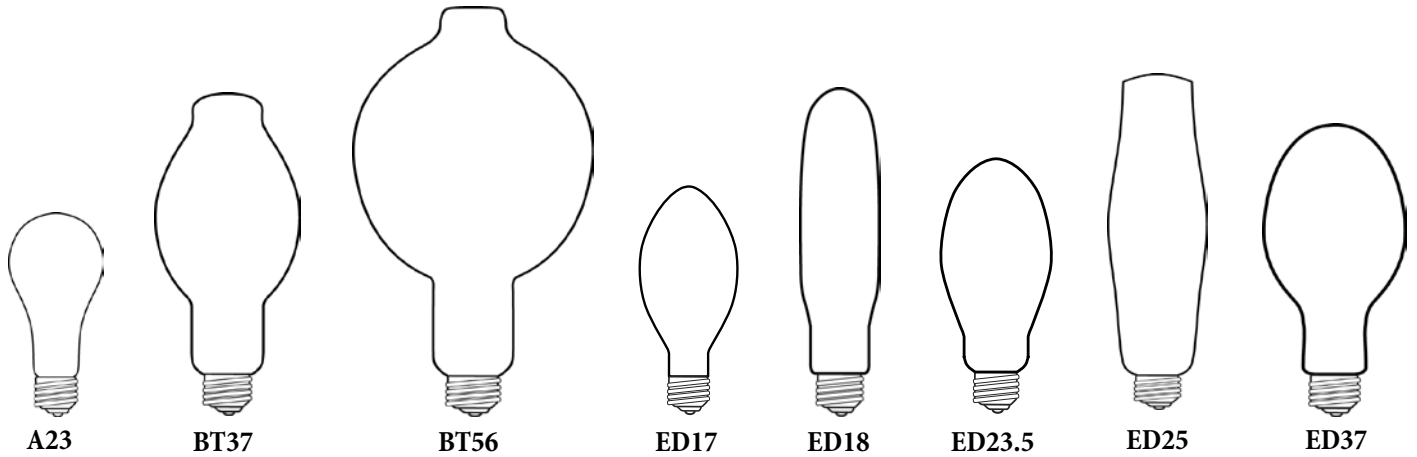
Product Number	Footnotes	Product Code	Description	MFD	Voltage	Pkg. Qty.
Capacitors						
55801		CAP/HPS50/120	120V DRY CAPACITOR	20	120	1/138
55805		CAP/HPS70	300V DRY CAPACITOR	7	300	1/138
55803		CAP/HPS70/120	120V DRY CAPACITOR	28	120	1/138
55809		CAP/HPS100	280V DRY CAPACITOR	10	280	1/138
55807		CAP/HPS100/120	120V DRY CAPACITOR	46	120	1/72
55813		CAP/HPS150	280V DRY CAPACITOR	14	280	1/95
55811		CAP/HPS150/120	120V DRY CAPACITOR	55	120	1/72
55815		CAP/HPS200	240V DRY CAPACITOR	28	240	1/72
55817		CAP/HPS250	240V DRY CAPACITOR	35	280	1/72
55870		CAP/HPS400/DRY	240V DRY CAPACITOR	55	240	1/35
55819		CAP/HPS400	240V OIL CAPACITOR	55	240	1/35
55821		CAP/HPS1000	525V OIL CAPACITOR	26	525	1/35
55851		CAP/MH50	280V DRY CAPACITOR	6	280	1/95
55853		CAP/MH70	280V DRY CAPACITOR	8	280	1/138
55855		CAP/MH100	280V DRY CAPACITOR	12	280	1/138
55857		CAP/MH150	280V DRY CAPACITOR	16	280	1/95
55859		CAP/MH175	400V DRY CAPACITOR	10	400	1/95
55861		CAP/MH250	400V DRY CAPACITOR	15	400	1/72
55871		CAP/MH250PS	330V DRY CAPACITOR	18.5	330	1/95
55863		CAP/MH320PS	345V DRY CAPACITOR	21	345	1/72
55865		CAP/MH350PS	345V DRY CAPACITOR	22.5	345	1/72
55867		CAP/MH400/OIL	400V OIL CAPACITOR	24	400	1/48
55868		CAP/MH400/DRY	400V DRY CAPACITOR	24	400	1/56
55873		CAP/MH400PS	330V DRY CAPACITOR	26	330	1/72
55869		CAP/MH1000	480V OIL CAPACITOR	24	480	1/35
Product Number	Product Code	Ballast				

Ignitors

55901	IGN/HPS1	35-150W HPS
55903	IGN/HPS2	200-400W HPS
55905	IGN/HPS3	1000W HPS
55907	IGN/MH1	50-400W PS MH

Bulb and Base Identification Guide

BULB SHAPES



A23

BT37

BT56

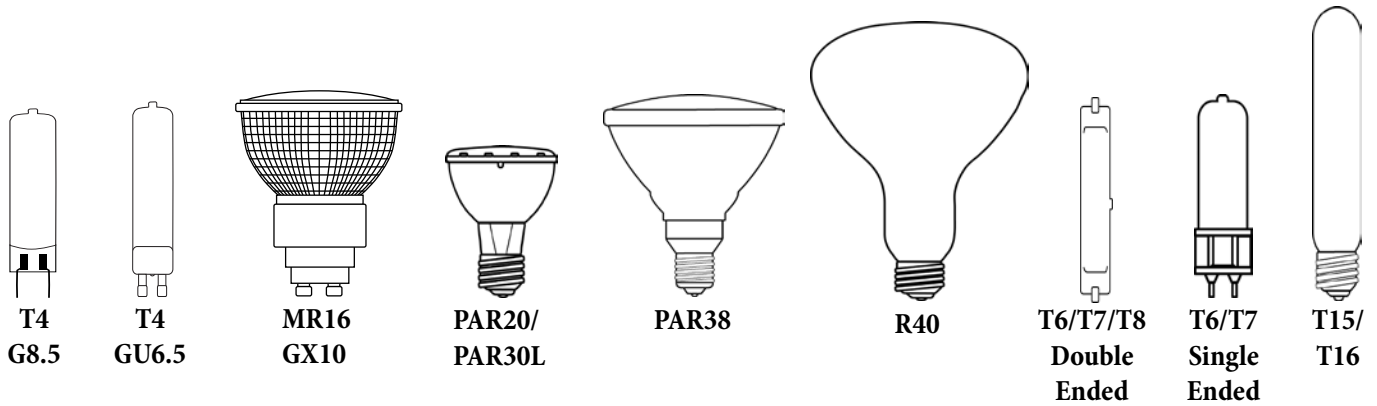
ED17

ED18

ED23.5

ED25

ED37



T4
G8.5

T4
GU6.5

MR16
GX10

PAR20/
PAR30L

PAR38

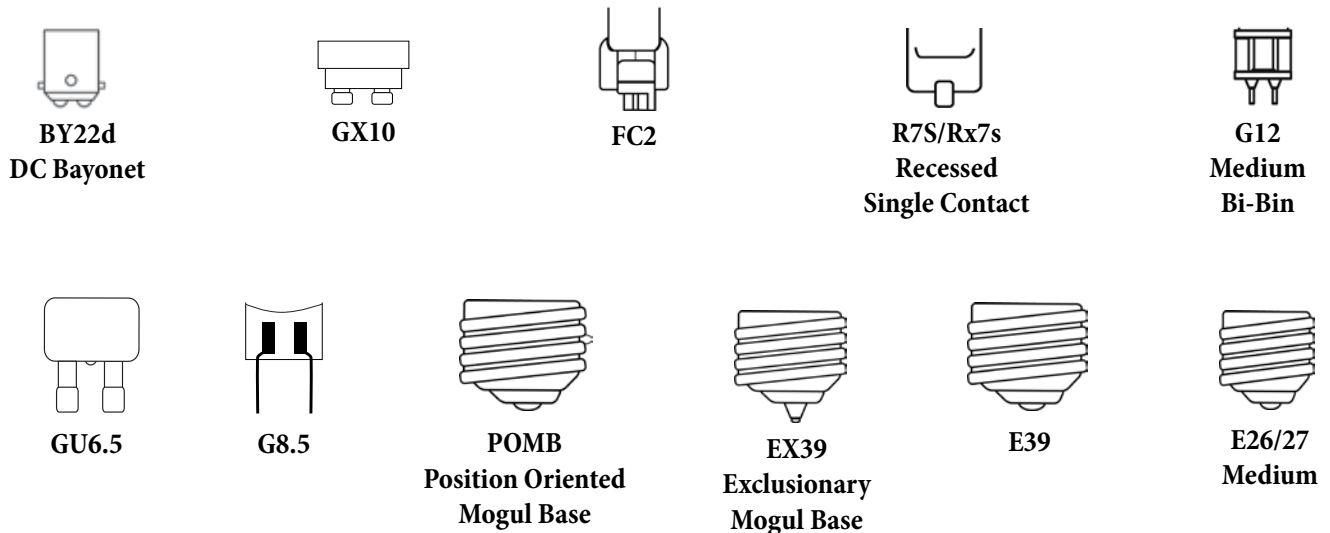
R40

T6/T7/T8
Double
Ended

T6/T7
Single
Ended

T15/
T16

BASE TYPES



BY22d
DC Bayonet

GX10

FC2

R7S/Rx7s
Recessed
Single Contact

G12
Medium
Bi-Bin

GU6.5

G8.5

POMB
Position Oriented
Mogul Base

EX39
Exclusionary
Mogul Base

E39

E26/27
Medium

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA	ANSI
CDM	CMH®	MasterColor®	Powerball®	
CDM20/MR16SP/830/GX10	CMH20/MR16/830/SP	-	-	C156
CDM20/MR16NFL/830/GX10	CMH20/MR16/830/FL	-	-	C156
CDM20/P20/FL/830	CMH20/PAR20/FL	-	-	C156
CDM20/P20/SP/830	CMH20/PAR20/SP	-	-	C156
CDM20/T6/830	CMH20/T/U/G12	-	-	C156/E
CDM20/TC/830	CMH20/TC/U/830/G8.5	-	MC20TC/U/G8.5/830	C156/E
CDM20/TC/830/GU6.5	CMH20/TC/U/830/GU6.5	-	-	C/M-130/E
CDM35/P20/SP/830	CMH39/PAR20/830/SP10	CDM35/PAR20/M/SP3K	MCP39PAR20/U/830/SP	C/M-130/O
CDM35/P20/FL/830	CMH39/PAR20/830/FL30	CDM35/PAR20/M/FL3K	MCP39PAR20/U/830/FL	C/M-130/O
CDM35/P30L/SP/830/M	CMH39/PAR30L/830/SP10	CDM35/PAR30L/M/SP	MCP39PAR30LN/U/830/SP	C/M-130/O
CDM35/P30L/FL/830	CMH39/PAR30L/830/FL25	CDM35/PAR30L/M/FL	MCP39PAR30LN/U/830/FL	C/M-130/O
CDM35/T6/830	CMH39/T/U/830/G12	CDM35/T6/830	MC39T6/U/G12/830	C/M-130/E
CDM35/TC/830	CMH39/TC/U/830/G8.5	CDM35/TC/830	MC39TC/U/G8.5/830	C/M-130/E
CDM35/TC/830/GU6.5	-	CDM35/TC/830/GU6.5	-	C/M-130/E
CDM35/TD/830	-	CDM70/TD/830	-	C/M-130/E
CDM70/P30L/SP/830	CMH70/PAR30L/830/SP15	CDM70/PAR30L/M/SP	MCP70PAR30LN/U/830/SP	C/M-98/O C/M-139/O
CDM70/P30L/FL/830	CMH70/PAR30L/830/FL40	CDM70/PAR30L/M/FL	MCP70PAR30LN/U/830/FL	C/M-98/O C/M-139/O
CDM70/P30L/SP/942	-	CDM70/PAR30L/M/SP/4K	-	C/M-98/O C/M-139/O
CDM70/P30L/FL/942	-	CDM70/PAR30L/M/FL/4K	-	C/M-98/O C/M-139/O
CDM70/P38/SP/830	CMH70/PAR38/830/SP15	CDM70/PAR38/M/SP	-	C/M-98/O C/M-139/O
CDM70/P38/FL/830	CMH70/PAR38/830/FL25	CDM70/PAR38/M/FL	-	C/M-98/O C/M-139/O
CDM70/P38/FL/942	-	CDM70/PAR38/M/FL/4K	-	C/M-98/O C/M-139/O
CDM70/T6/830	-	CDM70/T6/830	-	C/M-98/E C/M-139/E
CDM70/T6/942	-	CDM70/T6/942	-	C/M-98/E C/M-139/E
CDM70/TC/830	CMH70/TC/U/830/G8.5	CDM70/TC/830	MC70TC/U/G8.5/830	C/M-98/E C/M-139/E
CDM70/TD/830	CMH70/TD/830/Rx7s	CDM70/TD/830	MC70T6/DE/830	M85/E C/M-139/E
CDM70/U/830/MED	CMH70/C/U/830/MED/O	MHC70/C/U/M/3K/ALTO	MCP70/C/U/MED/830	C/M-98/E C/M-139/E
CDM100/P38/FL/830/M	CMH100/PAR38/830/FL25	CDM100/PAR38/FL/3K/ALTO	MCP100PAR38/U/FL/830/ECO	M90/O M140/O
CDM100/P38/SP/830/M	CMH100/PAR38/830/SP15	CDM100/PAR38/SP/3K/ALTO	MCP100PAR38/U/SP/830/ECO	M90/O M140/O
CDM150/T6/830	CMH150/T/U/830/G12	CDM150/T6/830	MC150T6/U/G12/830	C/M-102/E C/M-142/E
CDM150/T6/942	CMH150/T/U/942/G12	CDM150/T6/942	MC150T6/U/G12/942	C/M-102/E C/M-142/E
CDM150/TD/830	CMH150/TD/830/Rs7s	CDM150/TD/830	MC150T6/DE/830	M81/E C/M-102/E C/M-142/E
CDM150/U/830/MED	CHM150/U/830/MED/O	MHC150/U/MP/3K/ALTO	MCP150/U/MED/830	C/M-102/E C/M-142/E

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA	ANSI
Metal Halide	Multi-Vapor®	Metal Halide	Metalarc®	
MH50/U/MED/PS	MXR50/U/MED/O	MH50/U/M	MP50/U/MED	M110/E
MH50/C/U/MED/PS	MXR50/C/U/MED	MH50/C/U/M	MP50/C/U/MED	M110/E
MH70/U/MED/PS	MXR70/U/MED	-	MP70/U/MED	M98/E
MH70/C/U/MED/PS	MXR70/C/U/MED	-	MP70/C/U/MED	M98/E
MH70DE/UVS/3K	ARC70/TD/UVC/730	CDM70/TD/830	HQI-DE70/WDX	M85/E
MH70DE/UVS/4K	ARC70/TD/UVC/743	MHN70/TD/840	HQI-DE70/NDX	M85/E
MH70SE/UVS/3K	CMH70/T/U/830/G12	CDM70/T6/830	-	M85/E
MH70SE/UVS/4K	CMH70/T/U/943/G12	CDM70/T6/942	-	M85/E
MH100/U/MED/PS	MXR100/U/MED	-	MP100/U/MED	M90/E
MH100/C/U/MED/PS	MXR100/C/U/MED	-	MP100/C/U/MED	M90/E
MH100/U/MOG/PS	-	-	-	M90/E
MH125/HBU/MED/PS	-	-	-	M150/E
MH150/U/MED/PS	MXR150/U/MED	MP150/U/MED	-	M102/E
MH150/U/PS	-	-	-	M102/E
MH150/C/U/MED/PS	MXR150/C/U/MED	MH150/U/M	MED150/U/MED	M102/E
MH150DE/UVS/10K	-	-	-	M81/E
MH150DE/UVS/3K	ARC150/TD/UVC/730	MHN150/TD/840	HQI-DE150/WDX	M81/E
MH150DE/UVS/4K	ARC150/TD/UVC/742	-	HQI-DE150/NDX	M81/E
MH150DE/UVS/BDX	-	-	-	M81/E
MH150DE/UVS/GDX	-	-	-	M81/E
MH150SE/UVS/3K	ARC150T/U/830G12	-	-	M81/E
MH150SE/UVS/4K	ARC150T/U/840G12	-	HQI-SE150/NDX	M81/E
MH175/BU/PS	MVR175/VBU/PA	MS175/BU/PS	MS175/PS/BU-ONLY	M152/E-M137/E
MH175/BU/MED/PS	MVR175/VBU/MED/PA	MS175/BU/PS	MS175/PS/BU	M152/E-M137/E
MH175/HBU/PS	MVR175/VBU/PA	-	-	M152/E-M137/E
MH175/U	MVR175/U	MH175/U	M175/U	M57/E
MH175/U/MED	MVR175/U/MED	MH175/U/M	M175/U/MED	M57/E
MH175/C/U	MVR175/C/U	MH175/C/U	M175/C/U	M57/E
MH175/C/U/MED	MVR175/C/U/MED	MH175/C/U/M	M175/C/U/MED	M57/E
MH175/U/T15/10K	-	-	-	M57/E
MH200/BU/PS	-	-	MS200/PS/BU-ONLY/BT28	M136/E
MH200/C/BU/PS	-	-	MS200/C/PS/BU/BU-ONLY/BT28	M136/E
MH250/HBU/T15	-	-	-	M58/E
MH250/HBU/PS	MVR250/VBU/PA	MS250/BU/PS	MP250/PS/BU-ONLY	M153/E-M138/E
MH250/BU/PS	MVR250/VBU/PA	MS250/BU/PS	MP250/PS/BU-ONLY	M153/E-M138/E
MH250/BU/LU	MVR250/VBU/R	-	-	S50/E
MH250/C/BU/PS	MVR250/C/VBU/PA	-	MP250/C/PS/BU-ONLY	M153/E-M138/E
MH250/C/U	MVR250/C/U	MS250/C/U	M250/C/U	M58/E
MH250/U	MVR250/U	MH250/U	M250/U	M58/E
MH250DE/4K	-	-	-	M80/E
MH320/VBU/PS	MVR320/VBU/HO/PA	MS320/BU/PS	MS320/PS/BU	M154/E-M132/E
MH320/HBU/PS	MVR320/HOR/PA	MS320/PS/U	M320/PS/BU-HOR	M154/E-M132/E

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA	ANSI
Metal Halide	Multi-Vapor®	Metal Halide	Metalarc®	
MH320/BU/PS	MVR320/VBU/XHO/PS	MS320/U/PS	MP320/350/PS/BU-ONLY/BT28	M154/E-M132/E
MH320/C/BU/PS	MVR320/C/VBU/XHO/PS	MS320/C/U/PS	MS320/C/PS/BU-HOR	M154/E-M132/E
MH350/BU/PS	MVR350/VBU/XHO/PA	MS350/BU/PS	MP350/400/PS/BU-ONLY	M131/E
MH360/BU/ES	MVR360/VBU/WM/HO	-	-	M165/E-M59/E
MH400/BU/PS	MVR400/VBU/HO/PA	MS400/BU/PS	MS400/PS/BU-ONLY	M155/E-M135/E
MH400/BU/LU	MVR400/VBR/R	-	-	S51/E
MH400/HBU/ED18	-	-	-	M59/E
MH400/U	MVR400/U	MH400/U	M400/U	M59/E
MH400/U/ED28	MVR400/U/ED28	MH400/U/ED28	M400/U/BT28	M59/E
MH400/U/ED28/PS	MVR400/HOR/ED28/PA	-	M400/PS/U/BT28	M155/E-M135/E
MH400/U/PS	MVR400/HOR/PA	MS400/HOR/PS	M400/PS/U	M155/E-M135/E
MH400/U/T15/10K	-	-	-	M59/E
MH400/C/U	MVR400/C/U	MH400/C/U	M400/C/U	M59/E
MH400/C/U/ED28	MVR400/C/U/ED28	MH400/U/ED28	M400/C/U/BT28	M59/E
MH450/BU/PS	-	-	-	M144/E
MH750/BU/PS	MVR750/VBU/PA	-	MS750/PS/BU-HOR/BT37	M149/E
MH875/U/PS	-	-	-	M166/E
MH1000/U	MVR1000/U	MH1000/U	M1000/U	M47/E
MH1000/U/PS	MVR1000/U/BT37/PA	M1000/PS/U/BT37	MS1000/BU/BT37/PS	M141/E
MH1000/U/BT37	MVR1000/U/BT37	M1000/U/BT37	MH1000/U/BT37	M47/E
MH1500/BU	MVR1500/HBU	MH1500/U	M1500/BU-HOR	M48/E
MP50/C/U/MED/PS	MXR50/C/U/MED/O	-	MP50/C/U/MED	M110/O
MP50/U/MED/PS	MXR50/U/MED/O	-	MP50/U/MED	M110/O
MP70/C/U/MED/PS	MXR70/C/U/MED/O	-	MP70/C/U/MED	M98/O
MP100/U/MED/PS	MXR100/U/MED/O	-	MP100/U/MED	M90/O
MP150/U/MED/PS	MXR150/U/MED/O	-	MP150/U/MED	M102/O
MP150/C/U/MED/PS	MXR150/C/U/MED/O	MP150/C/U/MED	-	M102/O
MP175/BU	MPR175/VBU/O	MP175/BU	MP175/BU-ONLY	M57/O
MP175/BU/PS	MPR175/VBU/O	MP175/BU	MP175/BU-ONLY	M152/O-M137/O
MP175/U/MED	-	-	MP175/BU-ONLY/MED	M57/O
MP200/BU/PS	-	-	-	M136/O
MP200/C/BU/PS	-	-	-	M136/O
MP250/BU	MPR250/VBU/O	MP250/BU	MP250/BU-ONLY	M58/O
MP250/BU/PS	-	-	MP250/PS/BU-ONLY	M153/O-M138/O
MP250/C/BU	MPR250/C/VBU/O	-	MP250/C/BU-ONLY	M58/O
MP250/C/BU/PS	-	-	MP250/C/PS/BU-ONLY	M153/O-M138/O
MP320/BU/PS	MPR320/VBU/XHO/PA	MP320/BU/PS	MP320/350/PS/BU-ONLY/BT28	M154/O-M132/O
MP320/C/BU/PS	MPR320/C/VBU/XHO/PA	MP320/C/BU/PS	MP320/350/C/PS/BU-ONLY/BT28	M154/O-M132/O
MP360/BU/ES	MPR360/VBU/WM/HO/O	MP360/BU/EW	MSP360/SS/BU-ONLY	M59/O or M165/O
MP400/BU	MVT400/VBU	MHT400/U	MPT400/BU	M59/O
MP400/BU/PS	-	-	-	M155/O-M135/O
MP400/C/BU	MVT400/C/VBU	MHT400/C/U	MPT400/C/BU	M155/O-M135/O
MP450/BU/PS	-	-	-	M144/O

Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA	ANSI
Metal Halide	Multi-Vapor®	Metal Halide	Metalarc®	
MP575/BU/PS	-	-	-	M178/O
MP750/BU/PS	-	-	MP750/BU/PS	M149/O
MP875/BU/PS	-	-	-	M166/O
MP1000/BU	MPR1000/VBU/O	MP1000/BU	MP100/BU-ONLY	M47/O
H.P.S.	Lucalox™	Ceramalux®	Lumalux®	
LU35/MED	LU35/MED	C35S76/M	LU35/MED	S76
LU50	LU50	C50S68/ALTO	LU50/ECO	S68
LU50/MED	LU50/MED	C50S68/M	LU50/MED	S68
LU70	LU70	C70S62/ALTO	LU70/D	S62
LU70/MED	LU70/MED	C70S62/M	LU70/MED	S62
LU100	LU100/D	C100S54/ALTO	LU100/D	S54
LU100/MED	LU100/MED/ECO	C100S54/M	LU100/MED	S54
LU150	LU150/55/D	C150S55/M	LU150/55/D	S55
LU150/100	LU150/100	C150S56/ALTO	LU150/100	S56
LU150/MED	LU150/MED	C150S55/D/M	LU150/55/MED	S55
LU150/SBY/LL	LU150/55/SBY/XL	C150S55/2	LU150/55/SBY	S55
LU200/S66	LU200/ECO	C200S66/ALTO	LU200/ECO	S66
LU250	LU250/D	C200S50/ALTO	LU250/D	S50
LU400	LU400/D	C400S51/D/ALTO	LU400/D	S51
LU400/SBY/LL	LU400/SBY/XL	C400S51/2	LU400/SBY	S51
LU1000	LU1000/ECO	C1000S52/ALTO	LU1000	S52
Mercury Vapor				
MV1000DX	HR1000DX36	M36GW-1000/DX	H36GW-1000/DX	H36
MV100DX	HM100DX38/MED	H38MP-100/DX	H38AV-100/DX	H38
MV100DX/A23	HR100DX38/A23	H38MP-100/DX	H38AV-100/DX	H38
MV100DX/R40	HR100RDXFL38	H38BP-100/DX	H38BP-100/DX	H38
MV100DXMOG	HR100DX38	H38JA-100/DX	H38JA-100/DX	H38
MV175CL	HR174A39	H39KB-175	H39KB-175	H39
MV175DX	HR175DX39	H39KC-175/DX	H39KC-175/DX	H39
MV175DX/R40	HR175RDXFL39	H39BP-175/DX	H39BP-175/DX	H39
MV250CL	HR250A37	H37KB-250	H37KB-250	H37
MV250DX	HR250DX37	H37KC250/DX	H37KC-250/DX	H37
MV400CL	HR400A33	H33CD-400	H33CD-400	H33
MV400DX	HR400DX33	H33GL-400/DX	H33GL-400/DX	H33
MV50DX	HR40/50DX45-46	H46DL-40-50/DX	H45/46DL-40/50/DX	H46
MV75DX	HR75DX43	H43AV-75/DX	H43AV-75/DX	H43

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General Information and Warning Notices

Metal Halide and Mercury Vapor Lamp Warning:

R WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the envelope is broken or punctured are commercially available.

Fixture Requirements-Lamp Enclosure Type

HID lamps have fixture requirements that have to be followed. The following codes identify the appropriate fixture for a particular lamp.

O= Open or Enclosed Fixtures E= Enclosed Fixtures Only

Use in Enclosed Fixtures

“Enclosed” fixture means a fixture properly enclosed and designed to contain fragments of hot glass (up to 1100°C) per UL Standard #1598. If uncertain, contact the fixture manufacturer for more details.

Use in Open Fixtures

For lamps operated in the vertical position $\pm 15^\circ$ that are not designed for “Enclosed Fixtures Only” may be used in either open or enclosed fixtures depending on the environment and application. For instance, if the lamp is positioned by flammable material or in an unoccupied area for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended.

Protection of Bulbs from Moisture

The outer glass envelope of HID lamps are made of heat-resistant glass, designed to have both strength and thermal-shock-resistant characteristics appropriate for standard applications in typical luminaries. Nevertheless, it is necessary to provide shielding for lamps to avoid bulb breakage that may result from direct contact with liquids during operation.

Metal Halide Lamps

Fixture lens/diffuser material must be able to hold fragments of hot glass (up to 1100°C). If you do not know whether or not the fixture can safely withstand an arc tube rupture, contact fixture manufacturer. In continuously operating systems (24/7), turn lamps off once per week for 15 minutes. FAILURE TO DO SO INCREASES THE RISK OF RUPTURE. Fixture should be relamped at or before the lamp’s end of rated life. Light output diminishes while energy consumption and risk of rupture increase.

High Pressure Sodium Lamps

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

Mercury Lamps

Fixture lens/diffuser material must be capable of containing fragments of hot glass (up to 1100°C). If you do not know whether your fixture can 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 increases. Mercury lamps are not position-sensitive and may be operated in any burning position.

Starting Characteristics

When power is applied, full light does not occur instantaneously, there is a time delay for the lamp to reach 90% total light output. The delay time for Metal Halide is approximately 2-5 minutes, 3-4 minutes for High Pressure Sodium and 5-7 minutes for Mercury Vapor.

Lumens-Lumens Listed Are Reference Lumens

The rated average lamp lumen is obtained under controlled laboratory conditions in a set burning position. Initial Reference Lumens refer to the lamp lumen output after burning for 100 hours. 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 Vapor lamps, and at 40% rated life for Metal Halide lamps.

Rated Life

Values based on laboratory tests of a large quantity of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specific electrical characteristics. Individual or groups of lamps may vary from the Rated Life given. Lamp operating conditions may also influence life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value or life expectancy; the total operating time at which, under normal operating conditions, 50% of any group of originally installed lamps is expected to be still burning. At burning cycles shorter than 10 hours per start, the median life will shorten as follows:

5 hours start- approximate life of 75% of rating

2 ½ hours start- approximate life of 56% of rating

1 ¼ hours start- approximate life of 42% of rating

HID Color

The color temperature and CRI listed in the tables are for reference purposes only. All HID lamps display some amount of lamp-to-lamp color variation and shift over life. These characteristics may increase depending on choice of fixture, ballast, burning position and ambient conditions. Color difference may be greater than normal during the first 100 hours of burning.

Symbols, Footnotes and Abbreviations

SYMBOLS		ABBREVIATIONS	
†	New product introduced within the past year.	/4T	Suffix used to indicate 4-Tap (120/208/240/277) ballasts.
\$	Energy saving product.	/5T	Suffix used to indicate 5-Tap (120/208/240/277/480) ballasts.
x	Product will be discontinued when inventory is depleted.	/10K	Suffix used to indicate Color Temperature of 10,000K.
FOOTNOTES		/BDX	Suffix used to indicate a Blue ProLume® Metal Halide lamp.
1	Lamps classified as E-type are used ONLY in suitably enclosed luminaries. See lamp warning.	/BE	Suffix used to indicate ballasts with Bottom Exit lead wires.
2	UV-Stop Quartz filtered design.	BU	Code abbreviation for Base Up Operating lamps.
3	Lamps classified as O-type comply with ANSI standard C78.387 for containment testing and may be used in open luminaries. See lamp warning.	C	Code abbreviation for lamps with a Coated finish.
4	When operated on ballasts having a sustaining voltage less than 270 Volts, lamp life may be significantly reduced.	CAP	Code abbreviation for a capacitor.
5	Lamps with an E26 medium skirt base are not compatible with exclusionary medium sockets.	CDM	Code abbreviation for Ceramic Metal Halide.
6	Lamps may be operated on ANSI M135 (400W) compliant ballasts.	CL	Code abbreviation for lamps with a Clear finish.
7	20,000 average rated life based on 10hrs/start. 30,000 average rated life based on 120 hrs/start.	/CS	Suffix used to indicate CoverShield® safety coated lamps.
8	Operates at 360 watts on 400 watt M59 ballast or M165 ballast.	/CSTF	Suffix used to indicate CoverShield® Teflon® coated lamps.
9	Horizontally oriented lamps require a position oriented mogul (POM) socket to accept position oriented mogul base.	CWA	Code abbreviation for constant wattage autotransformer type ballasts.
10	H34 and H36 lamps are not interchangeable.	/D	Suffix used to indicate Diffused lamps.
11	Follow fixture manufacturer's recommendations regarding proximity of ballast to lamp.	DE	Code abbreviation for Double Ended Metal Halide lamps.
12	Supply voltage must be held to ±5 volts of rated supply voltage.	/DRY	Suffix used to indicate a dry-filled capacitor.
13	Color characteristics may vary somewhat from one lamp to another. Time should be allowed for lamp to stabilize in color when it is turned on for the first time or if for any reason its operating position is changed. This may require several hours of operation, with more than one start. Lamp color and output may change temporarily if the lamp is subjected to excess vibration or shock. Lamp color characteristics may change after long accumulated operating time.	DX	Code abbreviation for ProLume® Deluxe White Mercury Vapor lamps.
14	Use with 4000 Volt pulse-rated sockets only.	/ES	Suffix used to indicate an Energy Saving Metal Halide lamp.
15	Performance may not be satisfactory unless operated within specified operating positions.	/FL	Suffix used to indicate Flood lamps.
16	For use in fixtures that do not redirect a substantial portion of the energy toward the arc tube; otherwise very early failure is anticipated.	/GDX	Suffix used to indicate a Green ProLume® Metal Halide lamp.
17	Requires ballast that is designed to operate all popular brands of Metal Halide lamps. 1000W types will operate from H36 conventional lag type ballast for Mercury Vapor lamps at ambient temperatures of 50°F or higher. 1000W types must not be operated at 1500W or higher.	/HBU	Suffix used to indicate Horizontal to Base Up Metal Halide lamps.
18	It is a characteristic of phosphor-coated vapor lamps to require a few hundred hours of operation to gradually reach normal characteristic color. New lamps may have a slight pink appearance during this initial operation period.	/HOR	Suffix used to indicate Horizontal Metal Halide lamps.
19	This product contains less than 120 nCi of Kr-85.	HX	Code abbreviation for high reactor type ballasts.
20	For 40W operation use H45 ballast.	IGN	Code abbreviation for an ignitor.
21	Rated average life: vertical ±15°. Other positions 75% of rated life.	/K	Suffix used to indicate a replacement kit.
22	In general, horizontal lumens will be 5-10% lower than the vertical lumen values.	/LL	Suffix used to indicate lamps with a Long Life.
23	Do not use in fixtures designed for less than rated lamp wattages.	LU	Code abbreviation for High Pressure Sodium lamps.
24	Use electrical ballast, peak lead ballast or system that can shut itself off if ballast overheating occurs.	/LU	Suffix used to indicate High Pressure Sodium to Metal Halide retrofit lamp.
25	Lamp will operate at 400 watts when used on a linear reactor ballast.	/M	Suffix used to indicate a Major HID lamp.
26	Do not operate in aviaries or around fowl or small animals.	/MDX	Suffix used to indicate a Magenta ProLume® Metal Halide lamp.
27	This lamp meets ANSI specifications for T6 tube size as defined by ANSI C78.43-2007; nominal diameter for this item is 0.75" with a maximum diameter of 1". Halco 150W lamps have an outer glass diameter of 0.87" to increase arc tube reliability. Please ensure fixture dimensions prior to ordering.	MED	Code abbreviation for Medium base type (E26/27).
		MH	Code abbreviation for Metal Halide lamps.
		MHC	Code abbreviation for Ceramic Metal Halide lamps.
		MV	Code abbreviation for Mercury Vapor lamps.
		/MOG	Suffix used to indicate a Mogul base lamp.
		MP	Code abbreviation for Protected Metal Halide lamps suitable for open fixture applications.
		NFL	Code abbreviation for Narrow Flood lamps.
		/OIL	Suffix used to indicate an oil-filled capacitor.
		/PS	Suffix used to indicate Pulse Start lamps and ballasts.
		R	Code abbreviation for Reactor type ballasts.
		/SBY	Suffix used to indicate Stand-By Twin Arc Tube lamps.
		/SE	Suffix used to indicate ballasts with Side Exit lead wires.
		SE	Code abbreviation for Single Ended Metal Halide lamps.
		SOX	Code abbreviation for Low Sodium lamps.
		/SP	Suffix used to indicate Spot lamps.
		TC	Code abbreviation for T4 CDM lamps.
		U	Code abbreviation for Universal Metal Halide lamps.
		/UVS	Suffix used to indicate UV-Stop lamps.
ABBREVIATIONS			
/2T	Suffix used to indicate 2-Tap (120/277) ballasts.		
/3K	Suffix used to indicate Color Temperature of 3500K.		
/4K	Suffix used to indicate Color Temperature of 4000K.		

