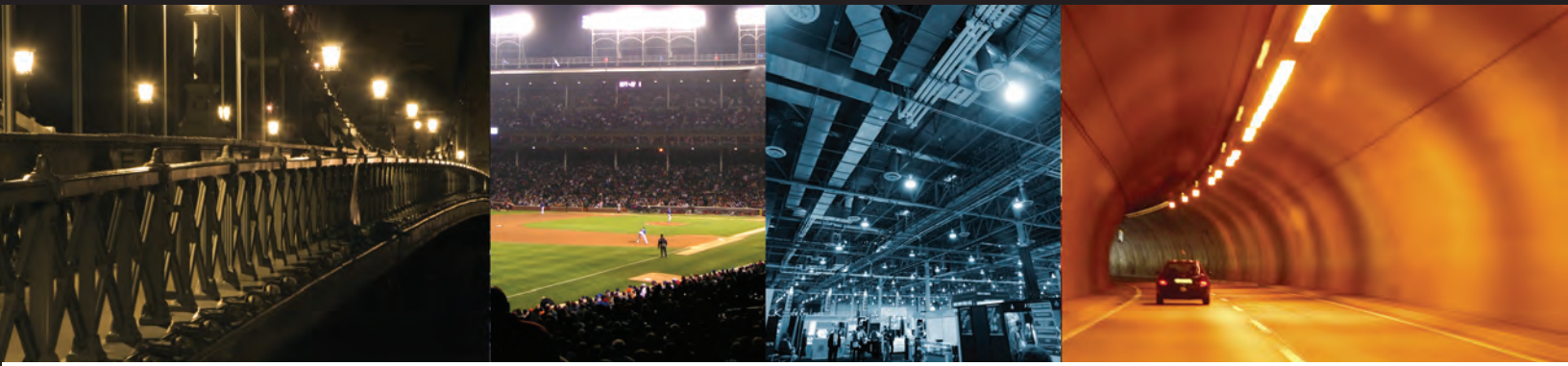


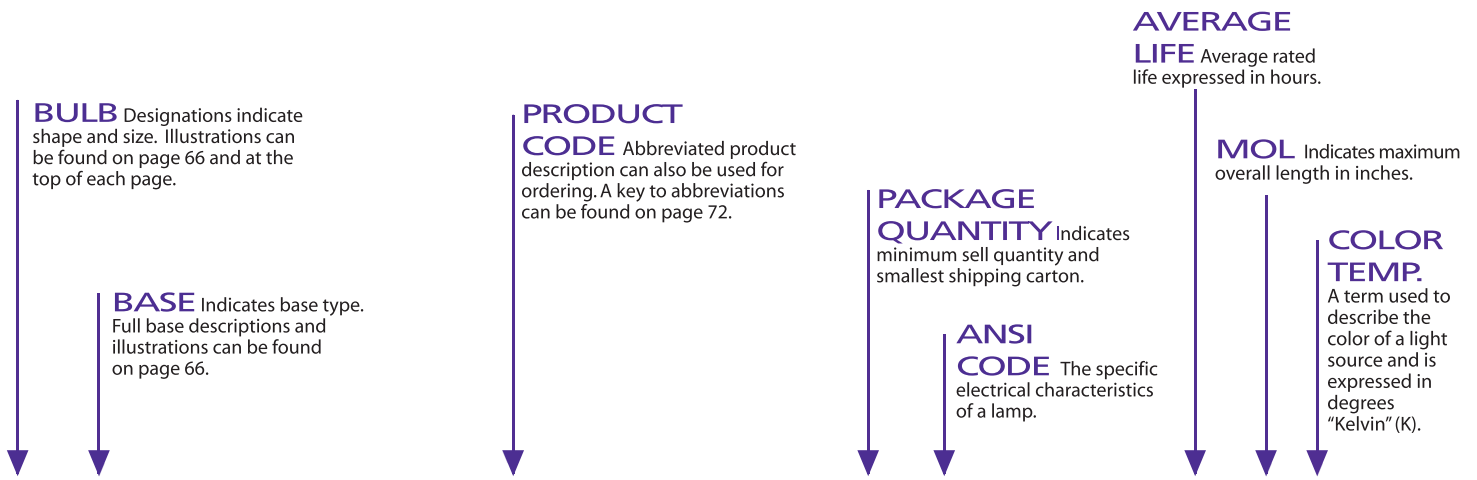
# high intensity discharge



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# how to read a table



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	MH50/U/MED/PS	Clear	1/12	M110/E	3400	2200	10000	5.45"	4000	65
		108232	1,13,14	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	MH70/U/MED/PS	Clear	1/12	M98/E	5600	3600	15000	5.45"	4000	65
		108248	1,13,14	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	MH100/U/MED/PS	Clear	1/12	M90/E	9000	5900	15000	5.45"	4000	65
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**WATTS**  
Indicates the power consumed by the lamp during operation.

**FOOTNOTES & SYMBOLS**  
Related footnotes can be found on page 72.

**DESCRIPTION**  
Bulb finish and other important information.

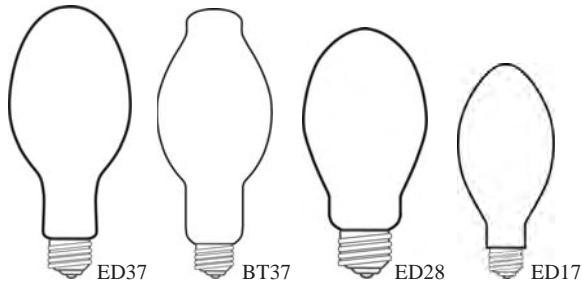
**MEAN LUMENS**  
The lamp's average light output at 40% of rated life.

**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.

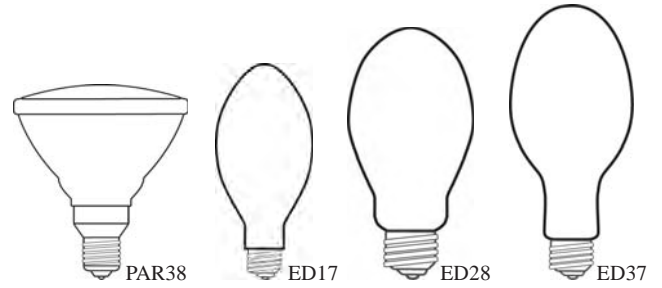
**CRI** An International scale from 0 to 100 that indicates the relative color rendering value of a light source. The Color rendering index expresses the degree to which colors will look "natural" under a given light source.

## Metal Halide



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg Qty	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
<b>ProLume® Pulse Start Metal Halide</b>													
<b>50 WATT</b>													
ED17	Med.	108228	1,13,14	MH50/U/MED/PS	Clear	1/12	M110/E	3400	2200	10000	5.45"	4000	65
		108232	1,13,14	MH50/C/U/MED/PS	Coated	1/12	M110/E	3300	2100	10000	5.45"	3700	70
<b>70 WATT</b>													
ED17	Med.	108246	1,13,14	MH70/U/MED/PS	Clear	1/12	M98/E	5600	3600	15000	5.45"	4000	65
		108248	1,13,14	MH70/C/U/MED/PS	Coated	1/12	M98/E	5300	3400	15000	5.45"	3700	70
<b>100 WATT</b>													
ED17	Med.	108254	1,13,14	MH100/U/MED/PS	Clear	1/12	M90/E	9000	5900	15000	5.45"	4000	65
		108256	1,13,14	MH100/C/U/MED/PS	Coated	1/12	M90/E	8500	5500	15000	5.45"	3700	70
ED28	Mogul	60003	†,1,13,14	MH100/U/MOG/PS	Clear	1/12	M90/E	9000	5900	15000	8.25"	4000	65
<b>150 WATT</b>													
ED17	Med.	108258	1,13,14	MH150/U/MED/PS	Clear	1/12	M102/E	14000	10500	15000	5.45"	4000	65
		108260	1,13,14	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	MH150/U/PS	Clear	1/12	M102/E	14000	10500	15000	8.25"	4000	65
<b>175 WATT</b>													
ED17	Med.	60002	†,1,4,13,14,15	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	MH175/BU/PS	Clear Base Up	1/12	M152/E M137/E	17500	14000	15000	8.25"	4000	65
<b>200 WATT</b>													
ED28	Mogul	108284	1,4,13,14,15	MH200/BU/PS	Clear Base Up	1/12	M136/E	21000	16800	15000	8.25"	4000	65
		60006	†,1,4,13,14,15	MH200/C/BU/PS	Coated Base Up	1/12	M136/E	20000	16000	15000	8.25"	3700	70
<b>250 WATT</b>													
ED28	Mogul	108276	1,4,13,14,15	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	MH250/C/BU/PS	Coated Base Up	1/12	M153/E M138/E	23800	19000	15000	8.25"	3700	70
<b>320 WATT</b>													
ED28	Mogul	108278	1,4,13,14,15	MH320/BU/PS	Clear Base Up	1/12	M154/E M132/E	33000	26000	20000	8.25"	4000	65
		60004	†,1,4,13,14,15	MH320/C/BU/PS	Coated Base Up	1/12	M154/E M132/E	31000	25000	20000	8.25"	3700	70
<b>350 WATT</b>													
ED37	Mogul	108291	1,4,13,14,15	MH350/BU/PS	Clear Base Up	1/6	M131/E	37000	29000	20000	11.5"	4000	65
<b>400 WATT</b>													
ED37	Mogul	108280	1,4,6,13,14,15	MH400/BU/PS	Clear Base Up	1/6	M155/E M135/E	44000	35000	20000	11.5"	4000	65
<b>750 WATT</b>													
BT37	Mogul	60001	†,1,4,13,14,15	MH750/BU/PS	Clear Base Up	1/6	M149/E	75000	55000	10000	11.5"	4000	65

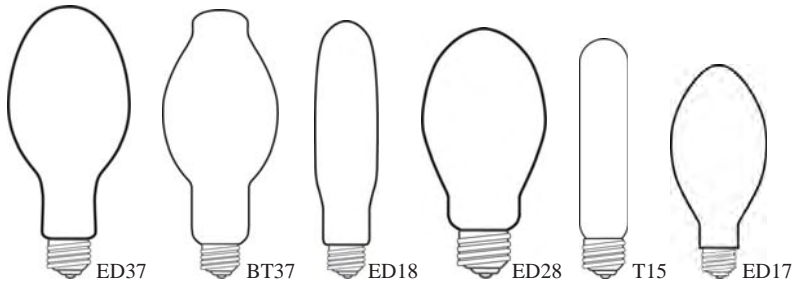
Metal Halide



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg Qty	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
<b>ProLume® Protected Metal Halide</b>													
<b>50 WATT</b>													
ED17	Med.	108266	3,13,14	MP50/U/MED/PS	Clear	1/12	M110/O	3300	2100	10000	5.45"	4000	65
		60505	†,3,13,14	MP50/C/U/MED/PS	Coated	1/12	M110/O	3200	2000	10000	5.45"	3700	70
<b>70 WATT</b>													
ED17	Med.	108268	3,13,14	MP70/U/MED/PS	Clear	1/12	M98/O	5300	3400	12000	5.45"	4000	65
		60508	†,3,13,14	MP70/C/U/MED/PS	Coated	1/12	M98/O	5000	3300	12000	5.45"	3700	70
PAR38	Med.	108250	†,3,5,13	MP70/PAR38/FL/4K	Flood	1/12	M98/O	10000cd	-	10000	5.45"	4000	65
<b>100 WATT</b>													
ED17	Med.	108270	3,13,14	MP100/U/MED/PS	Clear	1/12	M90/O	8500	5500	15000	5.45"	4000	65
		60507	†,3,13,14	MP100/C/U/MED/PS	Coated	1/12	M90/O	8100	5300	15000	5.45"	3700	70
PAR38	Med.	108252	†,3,5,13	MP100/PAR38/FL/4K	Flood	1/12	M90/O	12000cd	-	10000	5.45"	4000	65
<b>150 WATT</b>													
ED17	Med.	108272	3,13,14	MP150/U/MED/PS	Clear	1/12	M102/O	13300	10000	15000	5.45"	4000	65
		60503	†,3,13,14	MP150/C/U/MED/PS	Coated	1/12	M102/O	12600	9500	15000	5.45"	3700	70
<b>175 WATT</b>													
ED17	Med.	108282	3,13,14	MP175/U/MED/IC	Clear	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
<b>200 WATT</b>													
ED28	EX39	60511	†,3,13,14,15,17	MP200/BU/PS	Clear Base Up	1/12	M136/O	20000	16000	15000	8.25"	4000	65
		60509	†,3,13,14,15,17	MP200/C/BU/PS	Coated Base Up	1/12	M136/O	19000	15200	15000	8.25"	3700	70
<b>250 WATT</b>													
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	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	MP250/C/BU/PS	Coated Base Up	1/12	M153/O M138/O	22600	17600	15000	8.25"	3700	70
<b>320 WATT</b>													
ED28	EX39	108290	3,4,13,14,15	MP320/BU/PS	Clear Base Up	1/12	M154/O M132/O	31000	25000	20000	8.25"	4000	65
		60504	†,3,4,13,14,15	MP320/C/BU/PS	Coated Base Up	1/12	M154/O M132/O	29000	23000	20000	8.25"	3700	70
<b>360 WATT</b>													
ED37	EX39	108292	†,3,8,13,15, 17,25	MP360/BU/ES	Clear Base Up Energy Saver	1/6	M165/O M59/O	36000	23500	20000	11.5"	4000	65
<b>400 WATT</b>													
ED37	EX39	108294	3,13,15,17	MP400/BU	Clear Base Up	1/6	M59/O	36000	23500	20000	11.5"	4000	65
		60700	†,3,13,15,17	MP400/C/BU	Coated Base Up	1/6	M59/O	34000	22000	20000	11.5"	3700	70
		108296	3,4,6,13,14,15	MP400/BU/PS	Clear Base Up	1/6	M155/O M135/O	41000	33000	20000	11.5"	4000	65

HID symbols, footnotes and abbreviations are located on page 72.

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)**

**400 WATT (cont'd)**

ED37	EX39	60502	†,3,13,15,17,26	MP400/BU/TEF	Shatter Proof Base Up	1/6	M59/O	-	-	-	11.5"	4000	65
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**750 WATT**

BT37	EX39	60501	†,3,4,6,13,15	MP750/BU/PS	Clear Base Up	1/6	M149/O	72000	52000	10000	11.5"	4000	65
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**ProLume® Standard Metal Halide**

**175 WATT**

ED17	Med.	108262	1,13,17,21,22	MH175/U/MED/IC	Clear	1/25	M57/E	14000	9100	10000	5.45"	4000	65
		108264	1,13,17,21,22	MH175/C/U/MED/IC	Coated	1/12	M57/E	13300	8600	10000	5.45"	3700	70
ED28	Mogul	108200	1,13,17,21,22	MH175/U/IC	Clear	1/12	M57/E	14000	9100	10000	8.25"	4000	65
		108202	1,13,17,21,22	MH175/C/U/IC	Coated	1/12	M57/E	13300	8600	10000	8.25"	3700	70
		108602	1,13,17,21,22,26	MH175/U/IC/TEF	Shatter Proof	1/12	M57/E	-	-	-	8.25"	4000	65

**250 WATT**

ED28	Mogul	108204	1,13,17,21,22	MH250/U/IC	Clear	1/12	M58/E	21000	13700	10000	8.25"	4000	65
		108206	1,13,17,21,22	MH250/C/U/IC	Coated	1/12	M58/E	20000	13000	10000	8.25"	3700	70
		108604	1,13,17,21,22,26	MH250/U/IC/TEF	Shatter Proof	1/12	M58/E	-	-	-	8.25"	4000	65
		61200	†,1,13,21,22	MH250/BU/LU	LU Retrofit Base Up	1/12	S50/E	20000	13000	10000	8.25"	4000	65
POS Mogul		60303	†,1,9,13,17	MH250/HOR/IC	Clear Horizontal	1/12	M58/E	23000	15000	10000	8.25"	4000	65
		60302	†,1,9,13,17	MH250/C/HOR/IC	Coated Horizontal	1/12	M58/E	22000	14300	10000	8.25"	3700	70
T15	Mogul	108220	1,13,17,21,22	MH250/HBU/T15/IC	Clear Horizontal/ Base Up	1/12	M58/E	21000	13700	10000	8.3"	4000	65

**360 WATT**

ED37	Mogul	108212	\$,1,7,8,9,13,15,17,25	MH360/BU/ES	Clear Base Up	1/6	M165/E M59/E	36000	23000	20000	11.5"	4000	65
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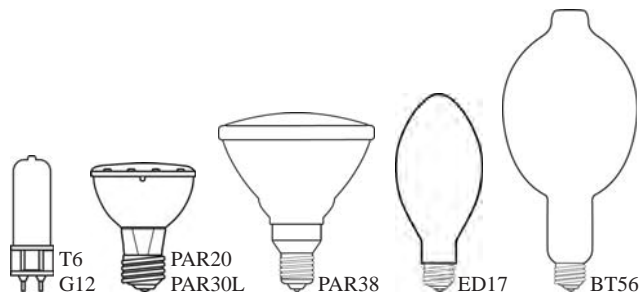
**400 WATT**

BT37	Mogul	849657	1,13,15	MS400/BU	Clear Base Up Major	1/6	M59/E	42000	27000	20000	11.5"	4000	65
ED18	Mogul	108218	†,1,13,15	MH400/HBU/ED18/IC	Clear Base UP/ Horizontal Major	1/12	M59/E	36000	23000	20000	9.75"	4000	65
ED28	Mogul	108216	1,7,13,17,21,22	MH400/U/ED28/IC	Clear	1/12	M59/E	36000	23000	20000	8.25"	4000	65
		60201	†,1,7,13,17,21,22	MH400/C/U/ED28/IC	Coated	1/12	M59/E	34000	22000	20000	8.25"	3700	70
ED37	Mogul	108208	1,7,13,17,21,22	MH400/U/IC	Clear	1/6	M59/E	36000	23000	20000	11.5"	4000	65
		108210	1,13,17,21,22	MH400/C/U/IC	Coated	1/6	M59/E	34000	22000	20000	11.5"	3700	70
		61201	†,1,13,21,22	MH400/BU/LU	LU Retrofit Base Up	1/12	S51/E	38000	24700	10000	11.5"	4000	65
		108600	1,13,17,21,22,26	MH400/U/IC/TEF	Shatter Proof	1/6	M59/E	-	-	-	11.5"	4000	65
		POS Mogul		60300	1,9,13,17	MH400/HOR/IC	Clear Horizontal	1/6	M59/E	38000	24700	20000	11.5"
60301	1,9,13,17			MH400/C/HOR/IC	Coated Horizontal	1/6	M59/E	36800	23900	20000	11.5"	3700	70

**1000 WATT**

BT37	Mogul	108226	1,13,17,21,22	MH1000/U/BT37/IC	Clear	1/6	M47/E	110000	71000	12000	11.5"	4000	65
		60200	†,1,13,17,21,22	MH1000/C/U/BT37/IC	Coated	1/6	M47/E	105000	68000	12000	11.5"	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® Standard Metal Halide (cont'd)**

**1000 WATT (cont'd)**

BT56	Mogul	108222	1,13,17,21,22	MH1000/U/IC	Clear	1/6	M47/E	110000	71000	12000	15.4"	4000	65
		60202	†,1,13,17,21,22	MH1000/C/U/IC	Coated	1/6	M47/E	105000	68000	12000	15.4"	3700	70

**1500 WATT**

BT56	Mogul	837405	1,13,15	MH1500BUH	Clear Base Up/ Horizontal Major	1/6	M48/E	165000	14000	3000	15.4"	3900	65
		108214	1,13,15	MH1500/BU/IC	Clear Base Up	1/6	M48/E	161000	136000	3000	15.4"	3400	65

**Ceramic Metal Halide**

**39 WATT**

PAR20	Med.	233643	3,12	CDM35/P20/FL/830	Flood Major	1/12	M130/O	2000	1300	90000	3.75"	3000	86
		233650	3,12	CDM35/P20/SP	Spot Major	1/12	M130/O	2000	1300	90000	3.75"	3000	86
PAR30	Med.	223305	3,12	CDM35/P30L/FL/830	Flood Long Neck Major	1/6	M130/O	2200	1430	90000	4.75"	3000	81
		223297	3,12	CDM35/P30L/SP/830	Spot Long Neck Major	1/6	M130/O	2200	1430	90000	4.75"	3000	81
T6	G12	223289	1,12	CDM35/T6/830	Clear Major	1/12	M130/E	3300	2600	12000	3.94"	3000	81

**70 WATT**

ED17	Med.	281295	1,12	MHC70UMED/4K/M	Clear Major	1/12	M98/E M143/E	5900	4130	20000	5.44"	4000	92
PAR30	Med.	232215	3,12	CDM70/P30L/FL/830	Flood Long Neck Major	1/6	M98/O M143/O	5000	3050	11000	4.75"	3000	83
		232249	3,12	CDM70/P30L/SP/830	Spot Long Neck Major	1/6	M98/O M143/O	5000	3050	11000	4.75"	3000	83
PAR38	Med.	845677	†,3,12	CDM70/P38/FL/830	Flood Major	1/6	M98/O M139/O	4800	3360	10000	5.44"	3000	82
		845675	3,12	CDM70/P38/SP/830	Spot Major	1/6	M98/O M139/O	4800	3360	10000	5.44"	3000	82
T6	G12	223370	1,12	CDM70/T6/830	Clear Major	1/12	M139/E	6600	4950	12000	3.94"	3000	81

**100 WATT**

ED17	Med.	281352	1,12	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	Flood Major	1/6	M90/O M140/O	6500	4550	10000	5.44"	3000	81
		845680	3,12	CDM100/P38/SP/830	Spot Major	1/6	M90/O M140/O	6500	4550	10000	5.44"	3000	81

**150 WATT**

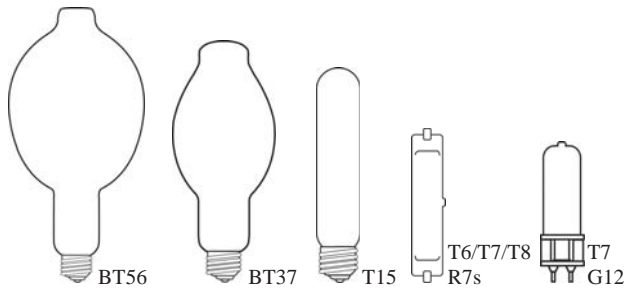
ED17	Med.	377200	1,12	MHC150UMED/4K/M	Clear Major	1/12	M102/E M142/E	13000	9750	20000	5.44"	4000	92
T6	G12	232728	1,12	CDM150/T6/830	Clear Major	1/12	M142/E	14000	9800	12000	4.35"	3000	85

**ProLume® Single Ended Metal Halide**

**70 WATT**

T6	G12	108434	1,2,12,13,24	MH70SE/UVS/3K	Clear UV-Stop	1/24	M85/E	5600	3600	10000	4.3"	3200	70
		108428	1,2,12,13,24	MH70SE/UVS/4K	Clear UV-Stop	1/24	M85/E	5600	3600	10000	4.3"	4200	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® Single Ended Metal Halide (cont'd)****150 WATT**

T7	G12	108430	1,2,12,13,24	MH150SE/UVS/3K	Clear UV-Stop	1/24	M81/E	14000	10500	10000	4.3"	3200	65
		108432	1,2,12,13,24	MH150SE/UVS/4K	Clear UV-Stop	1/24	M81/E	14000	10500	10000	4.3"	4200	65

**ProLume® Double Ended Metal Halide****70 WATT**

T6	R7s	108402	1,2,13,24	MH70DE/UVS/3K	Clear UV-Stop	1/24	M85/E	5600	3400	10000	4.65"	3000	70
		108400	1,2,13,24	MH70DE/UVS/4K	Clear UV-Stop	1/24	M85/E	5600	3600	10000	4.65"	4000	70

**100 WATT**

T6	R7s	108408	1,2,13,24	MH100DE/UVS/3K	Clear UV-Stop	1/24	M91/E	8000	4680	10000	4.65"	3000	70
		108406	1,2,13,24	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	MH150DE/UVS/3K	Clear UV-Stop	1/24	M81/E	12000	8400	10000	5.37"	3000	70
		108410	1,2,13,24	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	MH250DE/4K	Clear	1/24	M80/E	20000	13000	8000	6.42"	4200	70
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**ProLume® Color Metal Halide****150 WATT**

T7	R7s	108422	1,2,13,24	MH150DE/UVS/BDX	Blue UV-Stop	1/24	M81/E	-	-	8000	3.37"	-	-
		108424	1,2,13,24	MH150DE/UVS/GDX	Green UV-Stop	1/24	M81/E	-	-	8000	3.37"	-	-
		108426	1,2,13,24	MH150DE/UVS/MDX	Magenta UV-Stop	1/24	M81/E	-	-	8000	3.37"	-	-

**400 WATT**

BT37	Mogul	61001	†,1,13,17,21	MH400/BU/BDX	Blue	1/6	M59/E	-	-	5000	11.5"	-	-
		61002	†,1,13,17,21	MH400/BU/GDX	Green	1/6	M59/E	-	-	5000	11.5"	-	-

**1000 WATT**

BT56	Mogul	61004	†,1,13,17,21	MH1000/BU/BDX	Blue	1/6	M47/E	-	-	5000	15.37"	-	-
		61005	†,1,13,17,21	MH1000/BU/GDX	Green	1/6	M47/E	-	-	5000	15.37"	-	-

**ProLume® Aquarium Metal Halide****150 WATT**

T7	R7s	108420	1,2,13	MH150DE/UVS/10K	Clear UV-Stop	1/24	M81/E	9000	-	8000	5.37"	10000	80
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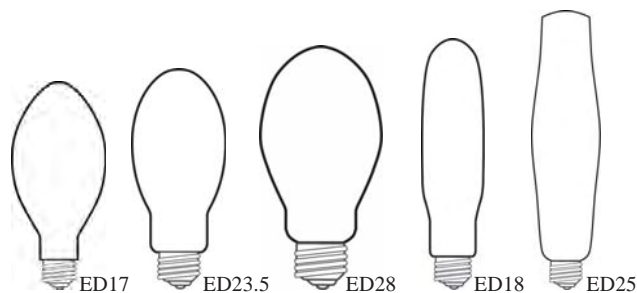
**175 WATT**

T15	Mogul	108418	1,13	MH175/U/T15/10K	Clear	1/12	M57/E	10500	-	10000	8.31"	10000	80
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**400 WATT**

T15	Mogul	108416	1,13	MH400/U/T15/10K	Clear	1/12	M59/E	25000	-	10000	9.76"	10000	90
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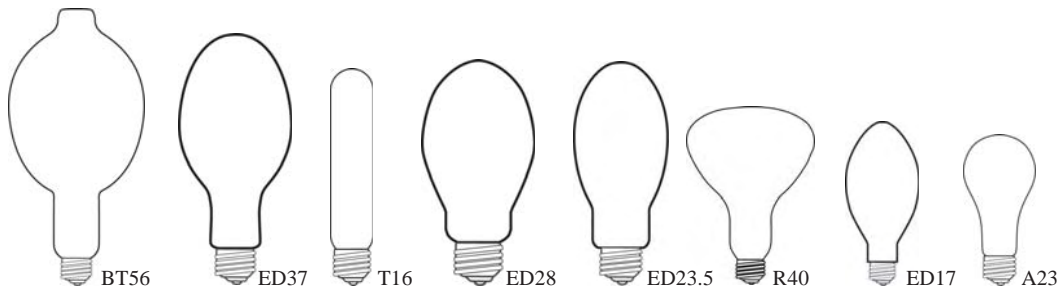
## High Pressure Sodium



Bulb	Base	Product Number	Footnotes	Product Code	Description	Pkg Qty	ANSI	Initial Lumens	Mean Lumens	Avg. Life	MOL	Color Temp.	CRI
<b>ProLume® High Pressure Sodium</b>													
<b>35 WATT</b>													
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
<b>50 WATT</b>													
ED17	Med.	108104	11,14,16	LU50/MED	Clear	1/12	S68	3800	3420	24000	5.45"	2000	20
		108105	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	11,14,16	LU50/D	Diffused	1/12	S68	3400	3060	24000	7.75"	2000	20
<b>70 WATT</b>													
ED17	Med.	108106	11,14,16	LU70/MED	Clear	1/12	S62	6000	5400	24000	5.45"	2000	20
		108107	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	†,11,14,16	LU70/D	Diffused	1/12	S62	5500	4950	24000	7.75"	2000	20
<b>100 WATT</b>													
ED17	Med.	108108	11,14,16	LU100/MED	Clear	1/12	S54	9000	8100	24000	5.45"	2000	20
		108109	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	†,11,14,16	LU100/D	Diffused	1/12	S54	8100	7290	24000	7.75"	2000	20
<b>150 WATT</b>													
ED17	Med.	108110	11,14,16	LU150/MED	Clear	1/12	S55	15000	13500	24000	5.45"	2000	20
		108111	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
<b>200 WATT</b>													
ED18	Mogul	208128	11,14,16	LU200	Clear	1/12	S66	22000	19800	24000	9.75"	2000	20
<b>250 WATT</b>													
ED18	Mogul	208130	11,14,16	LU250	Clear	1/12	S50	28000	25200	24000	9.75"	2000	20
<b>400 WATT</b>													
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
<b>1000 WATT</b>													
ED25	Mogul	279547	11,14,16	LU1000	Clear	1/6	S52	130000	117000	24000	15.08"	2000	20



Low Pressure Sodium  
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® Low Pressure Sodium**

**18 WATT**

T16	BY22d	821294		SOX18	Clear Major	1/16	L69	1800	1570	18000	8.5"	1800	0
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**35 WATT**

T16	BY22d	821296		SOX35	Clear Major	1/16	L70	4600	4000	18000	12.25"	1800	0
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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 A23	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	7.5"	4000	45
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**175 WATT**

ED28	Mogul	108332	22	MV175CL	Clear	1/12	H39	7800	7250	24000	8.5"	5800	25
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		108310	18,22	MV175DX	Deluxe White	1/12	H39	8500	6900	24000	8.5"	4000	45
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**250 WATT**

ED28	Mogul	108334	22	MV250CL	Clear	1/12	H37	12800	10535	24000	8.5"	5800	25
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		108312	18,22	MV250DX	Deluxe White	1/12	H37	13500	11100	24000	8.5"	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**

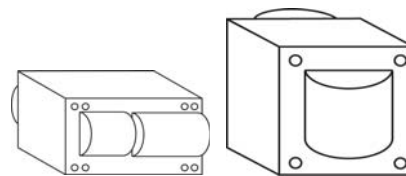
**100 WATT**

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**

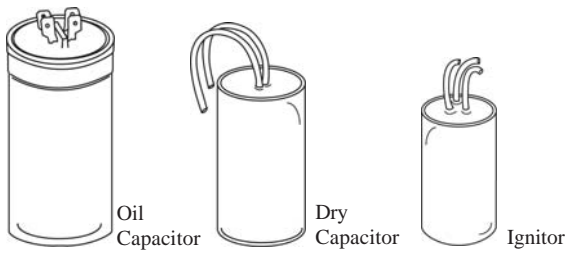
R40	Med.	108356	18	MV175DX/R40	Deluxe White Reflector	1/12	H39	6200	4900	24000	6.89"	5800	45
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## Ballasts



Product Number	Product Code	Description	Voltage	ANSI Code	Pkg Qty
<b>ProLume® Ballasts</b>					
<b>Pulse Start MH Ballast Kits</b>					
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
55148	M132/320CWA/4T/K	320W MH Quad-Tap Kit	120/208/240/277	M132	1/1
55162	M135/400CWA/4T/K	400W MH Quad-Tap Kit	120/208/240/277	M135	1/1
55160	M138/250CWA/4T/K	250W MH Quad-Tap Kit	120/208/240/277	M138	1/1
<b>Standard MH Ballast Kits</b>					
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	400 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
<b>High Pressure Sodium Ballast Kits</b>					
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

## Ballasts



Product Number	Product Code	Description	MFD	Voltage	Pkg Qty
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**ProLume® Ballasts****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	20V DRY CAPACITOR	55	120	1/72
55815	CAP/HPS200	240V DRY CAPACITOR	28	240	1/72
55817	CAP/HPS250	240V DRY CAPACITOR	35	240	1/72
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
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
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**Ignitors**

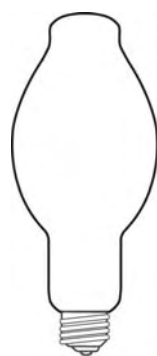
55901	IGN/HPS1	35-150W HPS
55903	IGN/HPS2	200-400W HPS
55905	IGN/HPS3	1000W HPS
55907	IGN/MH1	50-400W PS MH

Bulb and Base Identification Guide

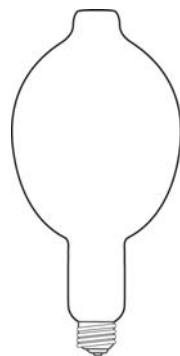
**BULB SHAPES**



A23



BT37



BT56



ED17



ED18



ED23.5



ED25



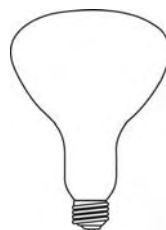
ED37



PAR20/  
PAR30L



PAR38



R40



T6/T7/T8  
Double  
Ended



T6/T7  
Single  
Ended



T15/  
T16

**BASE TYPES**



BY22d  
SC Bayonet



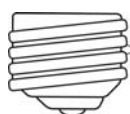
FC2



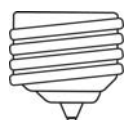
G12  
Medium  
Bi-Pin



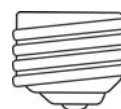
R7S  
Recessed  
Single Contact



POMB  
Position Oriented  
Mogul Base



EX39  
Exclusionary  
Mogul Base



E39



E26/27  
Medium

## Cross Reference Guide

<b>HALCO</b>	<b>G.E.</b>	<b>PHILIPS</b>	<b>OSRAM/SYLVANIA</b>	<b>ANSI</b>
<b>Metal Halide</b>	<b>Multi-Vapor</b>	<b>Metal Halide</b>	<b>Metalarc</b>	
CDM35/P20/FL/830	CMH39/PAR30/FL25	CDM35/PAR20/M/FL	MCP39PAR20/U/830/FL	M130/O
CDM35/P20/SP/830	CMH39/PAR20/SP10	CDM35/PAR20/M/SP	MCP39PAR20/U/830/SP	M130/O
CDM35/P30L/FL/830	CMH39/PAR30L/FL25	CDM35/PAR30L/M/FL	MCP39PAR30LN/U/830/FL	M130/O
CDM35/P30L/SP/830	CMH39/PAR30L/SP10	CDM35/PAR30L/M/SP	MCP39PAR30LN/U/830/SP	M130/O
CDM35/T6/830	CMH39/T/U/830/G12	CDM35/T6/830	MC39T6/U/G12/830	M130/E
MH50/U/MED/PS	MVR50/U/MED	MHC50/U/M/4K/ALTO	-	M110/E
MH50/C/U/MED/PS	MVR50/C/U/MED	-	-	M110/E
CDM70/P30L/FL/830	CMH70/U/PAR30L/FL40	CDM70/PAR30L/M/FL	MCP70PAR30LN/U/830/FL	M98/O or M143/O
CDM70/P30L/SP/830	CMH70/U/PAR30L/SP15	CDM70/PAR30L/M/SP	MCP70PAR30LN/U/830/SP	M98/O or M143/O
CDM70/P38/FL/830	CMH70/PAR38/830/FL25	CDM70/PAR38/SP/3K	MCP70PAR38/U/830/SP	M98/O or M139/O
CDM70/P38/SP/830	CMH70/PAR38/830/SP15	CDM70/PAR38/FL/3K	MCP70PAR38/U/830/FL	M98/O or M139/O
CDM70/T6/830	CMH70/T/U/830/G12	CDM70/T6/830	MC70T6/U/G12/830	M98/E or M139/E
MH70/U/MED/PS	MVR70/U/MED	MHC70/U/M/4K/ALTO	-	M98/E
MH70/C/U/MED/PS	MVR70/C/U/MED	MHC70/C/U/MP/4K/ALTO	-	M98/E
MHC70UMED/4K/M	CMH70/U/830/MED	MHC70/U/M/4K/ALTO	-	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	MC70T6/U/G12/830	M85/E
MH70SE/UVS/4K	CMH70/T/942/G12	CDM70/T6/942	MC70T6/U/G12/940	M85/E
CDM100/P38/FL/830	CMH100/PAR38/830/FL25	CDM100/PAR38/FL/3K	MCP100PAR38/U/830/FL	M90/O or M140/O
CDM100/P38/SP/830	CMH100/PAR38/830/SP15	CDM100/PAR38/SP/3K	MCP100PAR38/U/830/SP	M90/O or M140/O
MH100/U/MED/PS	MVR100/U/MED	MHC100/U/M/4K/ALTO	-	M90/E
MH100/C/U/MED/PS	MVR100/C/U/MED	MHC100C/U/M/4K/ALTO	-	M90/E
MH100/U/MOG/PS	-	MHC100/U/ED28/HR/4K	-	M90/E
MHC100UMED/4K/M	CMH100/U/830/MED	MHC100/U/M/4K/ALTO	-	M90/E
MH100DE/UVS/3K	-	-	-	M91/E
MH100DE/UVS/4K	-	-	-	M91/E
CDM150/T6/830	CMH150/T/U/830/G12	CDM150/T6/830	MC150T5/U/G12/830	M142/E
MHC150UMED/4K/M	MVR150/U/MED	MHC150/U/M/4K/ALTO	-	M102/E
MH150/U/PS	-	-	-	M102/E
MH150/U/MED/PS	MVR150/U/MED	MHC150/U/M/4K/ALTO	-	M102/E
MH150/C/U/MED/PS	MVR150/C/U/MED	MHC150/C/U/M/4K/ALTO	-	M102/E
MH150DE/UVS/3K	ARC150/TD/UVC/730	MHN150/TD/840	HQI-DE150/WDX	M81/E
MH150DE/UVS/4K	ARC150/TD/UVC/742	CDM150/TD/83	HQI-DE150/NDX	M81/E
MH150DE/UVS/10K	-	-	-	M81/E
MH150DE/UVS/BDX	-	-	-	M81/E
MH150DE/UVS/GDX	-	-	-	M81/E
MH150DE/UVS/MDX	-	-	-	M81/E
MH150SE/UVS/3K	ARC150T/U/830G12	CDM150/T6/830	-	M81/E
MH150SE/UVS/4K	ARC150T/U/840G12	CDM150/T6/942	HQI-SE150/NDX	M81/E
MH175/BU/MED/PS	MVR175/VBU/MED/PA	-	MS175/PS/BU-ONLY/MED	M137/E or M152/E

## Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA	ANSI
Metal Halide	Multi-Vapor	Metal Halide	Metalarc	
MH175/U/MED/IC	MVR175/U/MED	MH175/U/M	M175/U/MED	M57/E
MH175/C/U/MED/IC	MVR175/C/U/MED	MH175/C/U/M	M175/C/U/MED	M57/E
MH175/U/IC	MVR175/U	MH175/U	M175/U	M57/E
MH175/U/IC/TEF	-	-	-	M57/E
MH175/C/U/IC	MVR175/C/U	MH175/C/U	M175/C/U	M57/E
MH175/U/T15/10K	-	-	-	M57/E
MH175/BU/PS	MVR175/VBU/PA	MS175/BU/PS	MS175/PS/BU-ONLY	M137/E or M152/E
MH200/BU/PS	-	-	MS200/PS/BU-ONLY/BT28	M136/E
MH200/C/BU/PS	-	-	MS200/C/PS/BU-ONLY/BT28	M136/E
MH250DE/4K	-	-	HQI-DE250/NDX	M80/E
MH250U/ET18	-	-	M250/U/ET18	M58/E
MH250/U/IC	MVR250/U	MH250/U	M250/U	M58/E
MH250/U/IC/TEF	-	-	-	M58/E
MH250/C/BU/PS	MVR250/C/VBU/PA	-	MS250/C/PS/BU-ONLY	M138/E or M153/E
MH250/C/U/IC	MVR250/C/U	MH250/C/U	M250/C/U	M58/E
MH250/BU/LU	MVR250/VBU/R	-	-	S50/E
MH250/BU/PS	MVR250/VBU/PA	MS250/BU/PS	MP250/PS/BU-ONLY	M138/E or M153/E
MH250/HBU/T15/IC	-	-	-	M58/E
MH250/HOR/IC	MVR250/HOR	-	MS250/HOR	M58/E
MH250/C/HOR/IC	MVR250/C/HOR	-	MS250/C/HOR	M58/E
MH320/BU/PS	MVR320/VBU/XHO/PS	MS320/U/PS	MS320/350/PS/BU-ONLY/BT28	M132/E or M154/E
MH320/C/BU/PS	MVR320/C/VBU/XHO/PS	MS320/C/U/PS	MS320/C/PS/BU-HOR	M132/E or M154/E
MH350/BU/PS	MVR350/VBU/XHO/PA	MS350/BU/PS	MS350/400/PS/BU-ONLY	M131/E
MH360/BU/ES	MVR360/VBU/WM/HO	-	-	M59/E or M165/E
MH400/BU/BDX	-	-	-	M59/E
MH400/BU/GDX	-	-	-	M59/E
MH400/BU/LU	MVR400/VBU/R	-	-	S51/E
MH400/U/IC	MVR400/U	MH400/U	M400/U	M59/E
MH400/U/IC/TEF	-	-	-	M59/E
MH400/C/U/IC	MVR400/C/U	MH400/C/U	M400/C/U	M59/E
MH400/U/ED28/IC	MVR400/U/ED28	MH400/U/ED28	M400/U/BT-28	M59/E
MH400/C/U/ED28/1C	MVR400/C/U/ED28	-	M400/C/U/BT28	M59/E
MH400/U/T15/10K	-	-	-	M59/E
MH400/BU/PS	MVR400/VBU/XHO/PA	MS400/BU/PS	MS/400/PS/BU-ONLY	M135/E or M155/E
MH400/HBU/ED18/IC	-	-	-	M59/E
MH400/HOR/IC	MVR400/HOR/MOG/BT37	-	MS400/HOR	M59/E
MH400/C/HOR/IC	MVR400/C/HOR/MOG/BT37	-	MS400/C/HOR	M59/E
MS400/BU	MVR400/VBU	MS400/BU	MS400/BU-ONLY	M59/E
MH750/BU/PS	MVR750/VBU/PS	MS750/BU/BT37/PS	MS750/PS/BU-HOR/BT37	M149/E
MH1000/BU/BDX	-	-	-	M47/E

## Cross Reference Guide

<b>HALCO</b>	<b>G.E.</b>	<b>PHILIPS</b>	<b>OSRAM/SYLVANIA</b>	<b>ANSI</b>
<b>Metal Halide</b>	<b>Multi-Vapor</b>	<b>Metal Halide</b>	<b>Metalarc</b>	
MH1000/BU/GDX	-	-	-	M47/E
MH1000/U/IC	MVR1000/U	MH1000/U	M1000/U	M47/E
MH1000/C/U/IC	MVR1000/C/U	MH1000/C/U	MH1000/C/U	M47/E
MH1000/U/BT37/IC	MVR1000U/BT37	MH1000/U/BT37	MH1000/U/BT37	M47/E
MH1000/C/U/BT37/IC	-	-	-	M47/E
MH1500/BU/IC	-	-	-	M48E
MH1500BUH	MVR1500/HBU	-	MS1500/BU-HOR	M48/E
MP50/U/MED/PS	MXR50/U/MED/O	MHC50/U/MP/4K/ALTO	MP50/U/MED	M110/O
MP50/C/U/MED/PS	MXR50/C/U/MED/O	-	MP50/C/U/MED	M110/O
MP70/U/MED/PS	MXR70/U/MED/O	MHC70/U/MP/4K/ALTO	MP70/U/MED	M98/O
MP70/C/U/MED/PS	MXR70/C/U/MED/O	MHC70/C/U/MP/4K/ALTO	MP70/C/U/MED	M98/O
MP70/PAR38/FL/4K	-	-	-	M98/O
MP100/U/MED/PS	MXR100/U/MED/O	MHC100/U/MP/4K/ALTO	MP100/U/MED	M90/O
MP100/C/U/MED/PS	MXR100/C/U/MED/O	MHC100/C/U/MP/4K/ALTO	MP100/C/U/MED	M90/O
MP100/PAR38/FL/4K	-	-	-	M90/O
MP150/U/MED/PS	MXR150/U/MED/O	MHC150/U/MP/4K/ALTO	MP150/U/MED	M102/O
MP150/C/U/MED/PS	MXR150/C/U/MED/O	MHC150/C/U/MP/4K/ALTO	MP150/C/U/MED	M102/O
MP175/BU	MPR175/VBU/O	MP175/BU	MP175/BU-ONLY	M57/O
MP175/U/MED/IC	-	-	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/C/BU	MPR250/C/VBU/O	-	MP250/C/BU-ONLY	M58/O
MP250/BU/PS	-	-	MP250/PS/BU-ONLY	M138/O or M153/O
MP250/C/BU/PS	-	-	MP250/C/PS/BU-ONLY	M138/O or M153/O
MP320/BU/PS	MPR320/VBU/XHO/PA	MP320/BU/PS	MP320/350/PS/BU-ONLY/BT28	M132/O or M154/O
MP320/C/BU/PS	MPR320/C/VBU/XHO/PA	MP320/C/BU/PS	MP320/350/C/PS/BU-ONLY/BT28	M132/O or M154/O
MP360/BU/ES	MPR360/VBU/WM/HO/O	MP360/BU/EW	MSP360/SS/BU-ONLY	M59/O or M165/O
MP400/BU	MPR400/VBU/HO/O	MP400/BU	MP400/BU-ONLY	M59/O
MP400/BU/PS	MPR400/VBU/XHO/PA	MP400/BU/PS	MS400/PS/BU-ONLY	M135/O or M155/O
MP400/BU/TEF	-	-	-	M59/O
MP400/C/BU	MPR400/C/VBU/HO/O	MP400/C/BU	MP400/C/BU-ONLY	M59/O
MP750/BU/PS	-	-	-	M149/O
<b>H.P.S.</b>	<b>Lucalox</b>	<b>Ceramalux</b>	<b>Lumalux</b>	<b>ANSI</b>
LU35/MED	LU35/MED	C35S76/M	LU35/MED	S76
LU35MED/D	LU35/D/MED	C35S76/D/M	LU35/D/MED	S76
LU50/MED	LU50/MED	C50S68/M	LU50/MED	S68
LU50/MED/D	LU50/D/MED	C50S68/D/M	LU50/D/MED	S68
LU50	LU50	C50S68/ALTO	LU50/ECO	S68
LU50/D	LU50/D	C50S68/D/ALTO	LU50/D	S68

## Cross Reference Guide

HALCO	G.E.	PHILIPS	OSRAM/SYLVANIA	ANSI
H.P.S.	Lucalox	Ceramalux	Lumalux	
LU70/MED	LU70/MED	C70S62/M	LU70/MED	S62
LU70/MED/D	LU70/D/MED	C70S62/D/M	LU70/D/MED	S62
LU70	LU70	C70S62/ALTO	LU70/ECO	S62
LU70/D	LU70/D	-	LU70/D	S62
LU100/MED	LU100/MED	C100S54/M	LU100/MED	S54
LU100/MED/D	LU100/D/MED	C100S54/D/M	LU100/D/MED	S54
LU100	LU100	C100S54/ALTO	LU100/ECO	S54
LU100/D	LU100/D	C100S54/D/ALTO	LU100/D	S54
LU150/MED	LU150/MED	C150S55/M	LU150/55/MED	S55
LU150/MED/D	LU150/D/MED	C150S55/D/M	LU150/55/D/MED	S55
LU150	LU150/55	C150S55/ALTO	LU150/55/ECO	S55
LU150/100	LU150/100 (ED28)	C150S56/ALTO	LU150/100	S56
LU150/SBY/LL	LU150/55/SBY/XL	C150S55/2	LU150/55/SBY	S55
LU200	LU200	C200S66/ALTO	LU200/ECO	S66
LU250	LU250	C250S50/ALTO	LU250/ECO	S50
LU400	LU400	C400S51/ALTO	LU400/ECO	S51
LU400/SBY/LL	LU400/SBL/XL	C400S51/2	LU400/SBY	S51
LU1000	LU1000/ECO	C1000S52/ALTO	LU1000	S52

## Low Pressure Sodium

SOX18	SOX18	SOX-E18	SOX18	L69
SOX35	SOX35	SOX35	SOX35	L70
SOX55	SOX55	SOX55	SOX55	L71

## Mercury Vapor

MV50DX	HR40/50DX45-46	H46DL-40-50/DX	H45/46DL-40/50DX	H46DL-50
MV75DX	HR75DX43	H43AV-75/DX	H43AV-75/DX	H43AV-75
MV100DX	HR100DX38/MED	H38MP-100DX	H38AV-100/DX	H38AV-100
MV100DXMOG	HR100DX38	H38JA-100/DX	H38JA-100/DX	H38JA-100
MV100DX/A23	HR100DX38/A23	H38MP-100/DX	-	H38MP-100
MV100DX/R40	HR100RDXFL38	H38BP-100/DX	H38BP-100/DX	H38B-100
MV175CL	HR175A39	H39KB-175	H39KB-175	H39KB-175
MV175DX	HR175DX39	H39KC-175/DX	H39KC-175/DX	H39KC-175
MV175DX/R40	HR175RDXFL39	H39BP-175/DX	H39BP-175/DX	H39BP-175
MV250CL	HR250A37	H37KB-250	H37KB-250	H37KB-250
MV250DX	HR250DX37	H37KC-250/DX	H37KC-250/DX	H37KC-250
MV400CL	HR400A33	H33CD-400	H33CD-400	H33CD-400
MV400DX	HR400DX33	H33GL-400DX	H33GL-400/DX	H33GL-400
MV1000DX	HR1000DX36	H36GW-1000/DX	H36GW-1000/DX	H36GW-1000



## General Information and Warning Notices

### 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 +15° 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 any extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. To obtain more information, contact the fixture manufacturer.

### 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 the fixture manufacturer. In continuously operating systems (24/7), turn lamps off once per week for at least 15 minutes. FAILURE TO DO SO INCREASES THE RISK OF RUPTURE. Fixture should be relamped at or before the lamps end of rated life. Light output diminishes while energy consumption and risk of rupture increase if lamp goes beyond its rated life.

### 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 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 burning position.

### Starting Characteristics

When power is applied, full light output 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 40% of the rated life.

### 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 of life expectancy; the total operating time at which, under normal operating conditions, 50% of any large 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 75% of rating  
 2 1/2 hours start - approximate life 56% of rating  
 1 1/4 hours start - approximate life 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		FOOTNOTES (cont'd)	
†	New product introduced within the past year	23	Do not use this lamp in fixtures designed for less than rated lamp wattages.
\$	Energy saving product.	24	Use electronic ballast, peak lead ballast or system that can shut itself off if ballast overheating occurs.
x	Product will be discontinued when inventory is depleted.	25	Lamp will operate at 400 watts when used on a linear reactor ballast.
FOOTNOTES		26	Do not operate in aviaries or around fowl or small animals.
1	Lamps classified as E-type are to be used ONLY in suitably enclosed luminaires. See lamp warning.	ABBREVIATIONS	
2	UV-Stop Quartz filtered design.	/2T	Suffix used to indicate 2-Tap (120/277) ballasts.
3	Lamps classified as 0-type comply with ANSI standard C78.387 for containment testing and may be used in open luminaires. See lamp warning.	/3K	Suffix used to indicate Color Temperature of 3500K.
4	When operated on ballasts having a sustaining voltage less than 270 Volts, lamp life may be significantly reduced.	/4K	Suffix used to indicate Color Temperature of 4500K.
5	Lamps with an E26 medium skirt base are not compatible with exclusionary medium sockets.	/4T	Suffix used to indicate 4-Tap (120/208/240/277) ballasts.
6	Lamps may be operated on ANSI M135 (400W) compliant ballasts.	/5T	Suffix used to indicate 5-Tap (120/208/240/277/480) ballasts.
7	20,000 average rated life based on 10 hrs/start. 30,000 average rated life based on 120 hrs/start.	/10K	Suffix used to indicate Color Temperature of 10,000K.
8	Operates at 360 watts on 400 watt M59 ballast or M165 ballast.	/BDX	Suffix used to indicate a Blue ProLume® Metal Halide lamp.
9	Horizontally oriented lamps require a position oriented mogul (POM) socket to accept position oriented mogul base.	BU	Code abbreviation for Base Up Operating position.
10	H34 and H36 lamps are not interchangeable.	C	Code abbreviation for lamps with a Coated finish.
11	Follow fixture manufacturer's recommendations regarding proximity of ballast to lamp.	CAP	Code abbreviation for a capacitor.
12	Supply voltage must be held to ±5 volts of rated supply voltage.	CL	Code abbreviation for lamps with a Clear finish.
13	Color characteristics may vary somewhat from one lamp to another. Time should be allowed for the 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.	CWA	Code abbreviation for constant wattage autotransformer type ballasts.
14	Use with 4000 Volt pulse-rated sockets only.	DE	Code abbreviation for Double Ended Metal Halide lamps.
15	Performance may not be satisfactory unless operated within specified operating positions.	/DRY	Suffix used to indicate a dry-filled capacitor.
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.	DX	Code abbreviation for ProLume® Deluxe White Mercury Vapor lamps.
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.	/ES	Suffix used to indicate an Energy Saving Metal Halide lamp.
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 operating period.	/GDY	Suffix used to indicate a Green ProLume® Metal Halide lamp.
19	Though made of heat-resistant glass, breakage may result if moisture falls on bulb. Use in a well ventilated housing.	/HBU	Code abbreviation for Horizontal to Base Up Metal Halide lamps.
20	For 40W operation use H45 ballast.	/HOR	Code abbreviation for Horizontal Metal Halide lamps.
21	Rated average life: vertical ± 15°. Other positions 75% of rated life.	HX	Code abbreviation for high reactor type ballasts.
22	In general, horizontal lumens will be 5-10% lower than the vertical lumen values.	/IC	Suffix used to indicate ProLume® Industrial/Commercial lamps.
		IGN	Code abbreviation for an ignitor.
		/K	Suffix used to indicate a replacement kit.
		LU	Code abbreviation for High Pressure Sodium lamps.
		/LU	Suffix to indicate High Pressure Sodium to Metal Halide retrofit lamp.
		/M	Suffix used to indicate a Major HID lamp.
		/MDX	Suffix used to indicate a Magenta ProLume® Metal Halide lamp.
		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 to indicate a mogul base lamp.
		MP	Code abbreviation for Protected Metal Halide lamps suitable for open fixture applications.
		/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.
		SE	Code abbreviation for Single Ended Metal Halide lamps.
		SOX	Code abbreviation for Low Pressure Sodium lamps.
		/TEF	Suffix to indicate Teflon® Coated lamps.
		U	Code abbreviation for Universal Metal Halide lamps.
		/UVS	Suffix used to indicate UV-Stop lamps.