BALLAST & FUSE CHART

METAL HALIDE REFERENCE TABLE

LAMP WATTAGE	LAMP TYPE	BALLAST TYPE	POWER FACTOR	PRIMARY VOLTAGE	FUSE* (AMPS)	STARTING CURRENT (AMPS)	OPERATING CURRENT (AMPS)	OPEN CIRCUIT CURRENT	LINE INPUT WATTS	OPERATING VOLTAGE RANGE	MINIMUM STARTING AMBIENT (°C)
50	M-110	HX	HPF	120 277	3 3	0.60 0.25	0.65 0.30	1.00 0.45	72	A	-30
70	M-98	HX	HPF	120 208 240 277	5 3 3 3	0.55 0.30 0.25 0.25	0.85 0.50 0.40 0.40	1.90 1.00 0.90 0.80	90	A	-30
100	M-90	HX	HPF	120 208 240 277	8 5 3 3	1.15 0.66 0.58 0.50	1.15 0.66 0.58 0.50	2.60 1.50 1.30 1.15	129	A	-30
150	M-102	HX	HPF	120 208 240 277	10 5 5 4	0.95 0.55 0.50 0.42	1.60 0.90 0.80 0.70	3.65 2.10 1.80 1.58	185 185 185 185	A A A A	-30 -30 -30 -30
175	M-57, H-39	CWA	HPF	120 208 240 277 480	5 3 3 3 3	1.30 0.75 0.65 0.55 0.35	1.80 1.05 0.90 0.80 0.45	1.80 1.05 0.90 0.80 0.45	210	B	-30
250	M-58, H-37	CWA	HPF	120 208 240 277 480	8 5 5 3 3	2.10 1.40 1.10 1.00 0.60	2.50 1.45 1.25 1.10 0.60	1.55 0.90 0.80 0.70 0.50	285	B	-30
400	M-59, H-33	CWA	HPF	120 208 240 277 480	10 8 5 5 5	3.25 1.90 1.65 1.40 0.85	4.00 2.30 2.00 1.75 1.00	3.40 1.95 1.70 1.50 0.95	458	B	-30
1000	M-47, H-36	CWA	HPF	120 208 240 277 480	20 15 10 10 10	8.0 4.6 4.0 3.5 2.0	9.0 5.2 4.5 3.9 2.3	3.5 2.0 1.8 1.5 0.9	1080	B	-30
1500	M-48, H-36	CWA	HPF	120 208 240 277 480	30 30 20 15 15	13.5 7.7 6.7 5.9 3.3	13.5 7.8 6.8 5.9 3.4	4.8 2.5 2.2 2.0 1.1	1605	B	-30

*Type KTK fuse recommended.

METAL HALIDE BALLASTS

The distances at which most Metal Halide Ballasts can be located from their respective lamps are limited by the ballast-to-lamp size.

Note: The ballasts for the new, low-wattage Metal Halide lamps require an ignitor for starting. The maximum distance to the lamp for these is limited by the ignitor as shown on the High Pressure Sodium page.

Maximum One-Way Length of Wire Between Lamp and Ballast (feet)

Wattage	Minimum Wire Size #10	#12	#14	#16	#18
175	425	265	165	105	65
250	300	190	120	75	45
1-400 or 2-400	200	125	75	50	30
1000	325	205	125	80	50
1500	225	140	85	55	35

Voltage Ranges (Volts)

A (5%)	B (10%)
126 = 120 = 114	132 = 120 = 108
218 = 208 = 198	229 = 208 = 187
252 = 240 = 228	264 = 240 = 216
291 = 277 = 263	305 = 277 = 249
504 = 480 = 456	528 = 480 = 432