

H.I.D./METAL HALIDE

H.I.D./Metal Halide (Core & Coil)

LINE VOLTS	CIRCUIT TYPE	POWER FACTOR	INPUT WATTS	MAX INPUT CURRENT	OPEN CIRCUIT VOLTAGE
35 WATT M-130 Medium Base Lamp					
120	RX	HPF	53	1.1	230
277	RX	HPF	48	.54	277
50 WATT M-110 Medium Base Lamp					
120	RX	HPF	69	1.0	260
277	RX	HPF	62	.55	277
70 WATT M-98 Medium Base Lamp					
120	RX	HPF	90	.45	255
MULT	RX	HPF	90	—	255
277	RX	HPF	85	1.15	277
100 WATT M90 Lamp					
MULT	CWA	HPF	129	—	235
MULT	RX	HPF	129	—	280
277	RX	HPF	118	1.05	277
150 WATT M-102 Medium Base Lamp					
MULT	RX	HPF	185	—	265
277	RX	HPF	185	1.48	277
277 ²	RX	HPF	175	1.48	277
150 WATT M-107 Medium Base Lamp					
MULT	CWA	HPF	185	—	305
480	CWA	HPF	185	.45	305
175 WATT M-57 OR H-39 Lamp					
120	CWA	HPF	210	1.8	305
208	CWA	HPF	210	1.04	305
240	CWA	HPF	210	.9	305
277	CWA	HPF	210	.8	305
480	CWA	HPF	210	.45	305
175 WATT Lamp (Pulse Start with Ignitor)					
MULT	CWA	HPF	208	—	265
250 WATT M-58 OR H-37 Lamp					
120	WA	HPF	295	2.5	300
208	CWA	HPF	295	1.45	310
240	CWA	HPF	295	1.25	310
277	CWA	HPF	295	1.10	300
480	CWA	HPF	295	.63	315
250 WATT Lamp (Pulse Start with Ignitor)					
MULT	CWA	HPF	288	—	265

LINE VOLTS	CIRCUIT TYPE	POWER FACTOR	INPUT WATTS	MAX INPUT CURRENT	OPEN CIRCUIT VOLTAGE
320 WATT M-132 Lamp (Pulse Start with Ignitor)					
MULT	CWA	HPF	365	2.1	265
350 WATT M-131 Lamp (Pulse Start with Ignitor)					
MULT	CWA	HPF	395	2.1	277
480	CWA	HPF	403	.9	260
277	RX	HPF	375	2.1	277
400 WATT M-59 OR H-33 Lamp					
120	CWA	HPF	458	4.0	300
208	CWA	HPF	458	2.3	300
240	CWA	HPF	458	2.0	300
277	CWA	HPF	458	1.75	300
480	CWA	HPF	458	1.0	300
277	RX	HPF	425	2.1	277
400 WATT M-135 Lamp (Pulse Start with Ignitor)					
MULT	CWA	HPF	456	—	265
480	CWA	HPF	456	1.0	265
400 WATT TWIN³ M-59 Lamp					
120	CWA	HPF	890	8.2	335
277	CWA	HPF	890	3.6	335
480	CWA	HPF	890	2.0	335
450 WATT M-144 Lamp (Pulse Start with Ignitor)					
MULT	CWA	HPF	508	4.3	257
1000 WATT M.H. M-47 OR H-36 Lamp					
120	CWA	HPF	1080	9.0	430
208	CWA	HPF	1080	5.2	430
240	CWA	HPF	1080	4.5	430
277	CWA	HPF	1080	3.9	430
480	CWA	HPF	1080	2.25	430

NOTES:

1. Ballasts available in 347 volt, 50HZ and magnetic regulator-consult factory.
2. Includes integral ignitor.
3. Independent lamp operation.

Circuit Type:

CWA - Constant wattage autotransformer
 RX - Reactor or linear reactor

H.I.D./Metal Halide - Electronic

LINE VOLTS	CIRCUIT TYPE	POWER FACTOR	INPUT WATTS	MAX INPUT CURRENT	OPEN CIRCUIT VOLTAGE
39 WATT LAMP M130 Medium Base					
120	ELEC	90%	45	.4	15%
277			44		
50 WATT LAMP M110 or M148 Medium Base					
120	ELEC	90%	56	.5	15%
277			55		
70 WATT LAMP M98, M143, M139					
120	ELEC	90%	82	.7	15%
277			81		
100 WATT LAMP M90 or M140					
120	ELEC	90%	112	.9	15%
277			110		
150 WATT LAMP M102 or M142					
120	ELEC	90%	169	1.4	15%
277			166		
200 WATT LAMP M137 or M152 (Pulse-Start)					
120	ELEC	90%	194	1.7	15%
277			191		
200 WATT LAMP M136 (Pulse-Start)					
120	ELEC	90%	229	2.0	15%
277			219		
320 WATT LAMP M132/154 (Pulse Start)					
208	ELEC	90%	345	1.8	15%
277				1.3	
350 WATT LAMP M131 (Pulse-Start)					
208	ELEC	90%	375	1.9	15%
277				1.4	
400 WATT LAMP M135/M155 (Pulse Start)					
208	ELEC	90%	430	2.2	15%
277				1.6	

Features:

1. Ballast Factor = 1
2. Sound Rated A
3. Thermally Protected (Internal Fuse)
4. End of Life (EOL) Lamp Detection
5. Regulated .5% Wattage at $\pm 10\%$ Voltage
6. Minimum Starting Temperature -20° F, -40° F for 320, 350, 400W.
7. 208, 240 and 277 Volt Operation (320, 350 & 400 Watt Only)
8. 0-10V Dimming to 50% Power (150, 320, 350, 400 Watt Only)
9. Integral 120V Quartz Tap & Relay for 250W (320,350, & 400 Watt Only)

GENERAL TECHNICAL DETAILS – BALLAST DATA

H.I.D./Mercury Vapor

LINE VOLTS	CIRCUIT TYPE	POWER FACTOR	INPUT WATTS	STARTING AMPS	OPERATING AMPS	OPEN CIR. AMPS	FREQUENCY (HZ)	FUSE AMPS
50 WATT H45 Lamp								
120	AL	NFP	67	2.8	1.6	.3	60	10
120	—	—	67	.6	.7	.3	—	5
208	—	—	77	.3	.4	.2	—	5
240	CWA	HPF	77	.3	.3	.2	60	5
277	—	—	77	.3	.3	.2	—	5
480	—	—	77	.2	.2	.1	—	5
75 WATT H43 Lamp								
120	AL	NFP	94	3.1	1.6	.3	60	10
120	—	—	93	.8	—	—	—	5
208	—	—	93	.5	—	—	—	5
240	CWA	HPF	93	.4	—	—	60	5
277	—	—	93	.4	—	—	—	5
480	—	—	93	.2	—	—	—	5
100 WATT H38 Lamp								
120	AL	NFP	125	3.7	2.2	.6	60	10
120	—	—	121	1.0	1.1	.7	—	5
208	—	—	121	.07	.6	.4	—	5
240	CWA	HPF	121	.06	.6	.4	60	5
277	—	—	121	.05	.5	.3	—	5
480	—	—	121	.03	.3	.2	—	5
175 WATT H39 Lamp								
120	AL	NFP	195	6.0	3.3	.7	60	15
120	—	—	205	1.7	1.8	.8	—	5
208	—	—	205	1.0	1.1	.5	—	5
240	CWA	HPF	205	.9	.9	.4	60	5
277	—	—	205	.8	.8	.4	—	5
480	—	—	205	.5	.5	.3	—	5
250 WATT H37 Lamp								
120	AL	NFP	275	9.0	5.4	.9	60	20
120	—	—	285	2.5	2.5	2.0	—	10
208	—	—	285	1.5	1.5	1.2	—	5
240	—	—	285	1.3	1.3	1.0	60	5
277	—	—	285	1.1	1.1	.9	—	5
480	—	—	285	.7	.7	.5	—	5
400 WATT H33 Lamp								
120	—	—	455	3.4	3.9	3.0	—	10
208	—	—	455	2.1	2.2	1.7	—	10
240	CWA	HPF	455	1.8	2.0	1.5	60	5
277	—	—	455	1.5	1.7	1.3	—	5
480	—	—	455	1.0	1.0	.8	—	5
1000 WATT H36 Lamp								
120	—	—	1075	4.3	9.2	2.0	—	20
208	—	—	1075	2.5	5.3	1.2	—	15
240	CWA	HPF	1075	2.2	4.6	1.0	60	10
277	—	—	1075	1.9	4.0	.9	—	10
480	—	—	1075	1.2	2.3	.5	—	10

H.I.D./Low Pressure Sodium

LINE VOLTS	CIRCUIT TYPE	POWER FACTOR	INPUT WATTS	STARTING AMPS	OPERATING AMPS	OPEN CIR. AMPS	FREQUENCY (HZ)	FUSE AMPS
35 WATT Lamp								
120	—	—	60	—	.56	—	—	—
208	—	—	60	—	.32	—	—	—
240	CWA	HPF	60	—	.28	—	60	—
277	—	—	60	—	.24	—	—	—
480	—	—	60	—	.15	—	—	—
55 WATT Lamp								
120	—	—	80	—	.74	—	—	—
208	—	—	80	—	.43	—	—	—
240	CWA	HPF	80	—	.37	—	60	—
277	—	—	80	—	.32	—	—	—
480	—	—	80	—	.19	—	—	—
135 WATT Lamp								
120	—	—	178	—	1.65	—	—	—
208	—	—	178	—	.95	—	—	—
240	CWA	HPF	178	—	.82	—	60	—
277	—	—	178	—	.71	—	—	—
480	—	—	178	—	.41	—	—	—
180 WATT Lamp								
120	—	—	220	—	2.04	—	—	—
208	—	—	220	—	1.18	—	—	—
240	CWA	HPF	220	—	1.02	—	60	—
277	—	—	220	—	.88	—	—	—
480	—	—	220	—	.51	—	—	—

CIRCUIT TYPE

- AT = Auto Transformer
- AR = Auto Regulator
- AL = Auto Lag
- CWA = Constant Wattage Auto Transformer
- CWI = Constant Wattage Isolated
- MR = Magnetic Regulator
- PLA = Peak-Lead Auto Transformer
- PLI = Peak-Lead Isolated
- RX = Reactor

GENERAL TECHNICAL DETAILS – BALLAST DATA

H.I.D./High Pressure Sodium¹

INPUT VOLTS	CIRCUIT TYPE	POWER FACTOR	INPUT WATTS	MAX INPUT CURRENT	OPEN CIRCUIT VOLTAGE
35 WATT S-76 Lamp					
120	RX	HPF	46	.78	120
120	RX	NPF	46	1.35	120
50 WATT S-68 Lamp					
120	RX	HPF	62	.95	120
277	RX	HPF	66	.45	120
120	RX	NPF	62	1.8	120
70 WATT S-62 Lamp					
120	RX	HPF	91	1.45	120
208	RX	HPF	91	.85	120
240	RX	HPF	91	.75	120
277	RX	HPF	91	.65	120
480	RX	HPF	93	.36	120
120	RX	NPF	86	2.10	120
100 WATT S-54 Lamp					
120	RX	HPF	130	2.2	120
208	RX	HPF	130	1.25	120
240	RX	HPF	130	1.1	120
277	RX	HPF	130	.85	120
480	RX	HPF	130	.55	120
120	RX	NPF	115	3.05	120
150 WATT S-55 Lamp (55 Volt Arc Tube)					
120	RX	HPF	188	2.35	120
208	RX	HPF	188	1.6	120
240	RX	HPF	188	1.4	120
277	RX	HPF	188	1.25	120
480	RX	HPF	188	.70	120
120	RX	NPF	170	4.5	120
MULT	CWA	HPF	188	—	180
480	CWA	HPF	190	.44	180
250 WATT S-50 Lamp					
120	CWA	HPF	295	2.50	185
208	CWA	HPF	295	1.5	185
240	CWA	HPF	295	1.3	185
277	CWA	HPF	295	1.1	185
480	CWA	HPF	310	.63	185
400 WATT S-51 Lamp					
120	CWA	HPF	457	3.8	190
208	CWA	HPF	457	2.2	190
240	CWA	HPF	457	1.9	190
277	CWA	HPF	457	1.7	190
480	CWA	HPF	464	.97	190
MULT	MR	HPF	490	—	215
480	MR	HPF	490	1.05	215
600 WATT S-106 Lamp					
MULT	CWA	HPF	665	—	230
480	CWA	HPF	665	1.43	230
750 WATT S-111 Lamp					
MULT	CWA	HPF	850	—	235
480	CWA	HPF	840	1.78	235
1000 WATT S-52 Lamp					
120	CWA	HPF	1100	9.2	435
208	CWA	HPF	1100	5.3	435
240	CWA	HPF	1100	4.6	435
277	CWA	HPF	1100	4.0	435
480	CWA	HPF	1100	2.3	435

Induction

INPUT VOLTS	POWER FACTOR	INPUT WATTS	MAX INPUT CURRENT
55 WATT QL			
120	.96	60	.46
85 WATT QL			
120	.96	95.5	.71
165 WATT QL			
277	.96	175	.70

NOTES:

1. Available in 347 V, 50HZ and magnetic regulator – consult factory.

Ballast Types

CWA – Constant wattage autotransformer

RX – Reactor

MR – Magnetic Regulator



A DIVISION OF JJI LIGHTING GROUP, INC.

T 8
R4/00