

Ordering Information

Ordering Example:

For standard fixture and pole

Mounting Fixture Electrical Module Finish Options Pole VSF Option
2B/WP9LE3/250PMH277/SG-P/ A-25 / PRA20-4188SB / SG-P / VSF-2SB
1 2 3 4 5-11 12 13

See separate Kim Pole Catalog.
 Omit for 1W Wall Mount.

1 Mounting:

3Y configuration is available for round poles only.

Plan View:



Wall Mount

EPA WP9L:
 EPA WP9S:
 Cat. No.:

0.95
 0.52
1A

1.9
 1.04
2B

1.47
 0.82
2L

2.4
 1.3
3T

2.4
 1.3
3Y

2.7
 1.5
4C

n/a
 n/a
1W

2 Fixture:

Cat. No. designates fixture and light distribution

Light Distribution:



Type II

Full Cutoff



Type III

Full Cutoff



Type IV
 Forward Throw
 Full Cutoff



Type V
 Square
 Full Cutoff

Warp9 Small
 Electronic Ballast:

WP9SE2

WP9SE3

WP9SE4

WP9SE5

Warp9 Small
 Magnetic Ballast:

WP9SM2

WP9SM3

WP9SM4

WP9SM5

Warp9 Large
 Electronic Ballast:

WP9LE2

WP9LE3

WP9LE4

WP9LE5

Warp9 Large
 Magnetic Ballast:

WP9LM2

WP9LM3

WP9LM4

WP9LM5

3 Electrical Module:

PMH = Pulse Start
 Metal Halide

MH = Metal Halide

HPS = High Pressure Sodium

PL = Compact Fluorescent

See **lamp and electrical data**
 on pages **20-21**

Warp9 - Small / Electronic

Pulse Start
 Metal Halide

70PMH120 150PMH120
70PMH208 150PMH208
70PMH240 150PMH240
70PMH277 150PMH277

42PL120 60PL120
42PL208 60PL208
42PL240 60PL240
42PL277 60PL277

100PMH120
100PMH208
100PMH240
100PMH277

57PL120
57PL208
57PL240
57PL277

Warp9 - Large / Electronic

Pulse Start
 Metal Halide

200PMH120 350PMH208
200PMH208 350PMH240
200PMH240 350PMH277
200PMH277 400PMH208
250PMH208 400PMH240
250PMH240 400PMH277
250PMH277

320PMH208
320PMH240
320PMH277

Warp9 - Small / Magnetic

Pulse Start
 Metal Halide

70PMH120 150PMH120
70PMH208 150PMH208
70PMH240 150PMH240
70PMH277 150PMH277
70PMH347 150PMH347
70PMH480 150PMH480

70HPS120 175MH120
70HPS208 175MH208
70HPS240 175MH240
70HPS277 175MH277
70HPS347 175MH347
70HPS480 175MH480

100PMH120
100PMH208
100PMH240
100PMH277
100PMH347
100PMH480

100HPS120
100HPS208
100HPS240
100HPS277
100HPS347
100HPS480
150HPS120
150HPS208
150HPS240
150HPS277
150HPS347
150HPS480

Warp9 - Large / Magnetic

Pulse Start
 Metal Halide

200PMH120 350PMH120
200PMH208 350PMH208
200PMH240 350PMH240
200PMH277 350PMH277
200PMH347 350PMH347
200PMH480 350PMH480

250PMH120 400PMH120
250PMH208 400PMH208
250PMH240 400PMH240
250PMH277 400PMH277
250PMH347 400PMH347
250PMH480 400PMH480
320PMH120
320PMH208
320PMH240
320PMH277
320PMH347
320PMH480

High Pressure Sodium

150HPS120 175MH120
150HPS208 175MH208
150HPS240 175MH240
150HPS277 175MH277
150HPS347 175MH347
150HPS480 175MH480

250HPS120 250MH120
250HPS208 250MH208
250HPS240 250MH240
250HPS277 250MH277
250HPS347 250MH347
250HPS480 250MH480
400HPS120 400MH120
400HPS208 400MH208
400HPS240 400MH240
400HPS277 400MH277
400HPS347 400MH347
400HPS480 400MH480

Lamp Watts	Lamp Type	Line Volts
250	PMH	277

4 Finish:

Super TGIC powder coat paint over titanated zirconium conversion coating.
(see page 12)

Color: Black Dark Bronze Stealth Gray™ Platinum Silver White
Cat. No.: **BL-P** **DB-P** **SG-P** **PS-P** **WH-P**

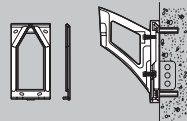
RAL#6012 HUNTER GREEN

Custom Colors

CC-P

Consult your Kim Lighting representative for custom colors.

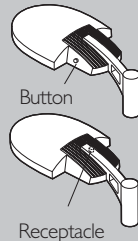
5 Wall Mounting:



Cat. No.: **1W**

A cast-aluminum mounting plate is mounted to the wall with four bolts (by others). Fixture and arm are mounted to the cast aluminum cover plate before attaching to the wall mounting plate. The fixture-arm-cover plate assembly is hooked to the wall mounting plate and secured with stainless steel screws provided. Field splices are made at the opening in the cover plate. Cover is finished to match arm and fixture color.

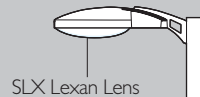
6 Optional Photocell



Cat. No.: **A-25** Receptacle
A-30 - A-35 Button

Two types of photocell controls are available. A receptacle for a NEMA base photocell (by others) would be located above the electrical compartment. For all multiple-fixture pole mountings with two or three fixtures, one fixture has a receptacle to operate the others. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles. Also available is an internal photocell with a button sensor on the left side of the fixture. For multiple-fixture pole mountings, one fixture has a photocell to operate the others.

7 Optional SLX Lexan® Non-Yellowing Lens:



Cat. No.: **SLX**

One-piece non-yellowing vacuum formed advanced polymer (SLX Lexan from GE Advanced Materials) enclosure covers standard tempered glass lens.

CAUTION: Use only when vandalism is anticipated to be high.

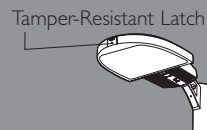
8 Optional Houseside Shield:



Cat. No.: **HS**

Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V Sq light distributions.

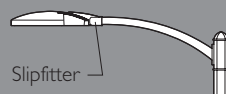
9 Optional Tamper-Resistant Latch:



Cat. No.: **TL**

Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent unauthorized opening. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

10 Optional Horizontal Slipfitter Mount:



Cat. No.: **HSF**

Replaces standard mounting arm with a slipfitter for mounting to a horizontal pole davit-arm with 2" pipe-size mounting end (2 3/8" O.D.). Provides ±5° vertical fixture adjustment.

11 Special Options for Street Lighting:

Cat. No.: **TB** Terminal Block located inside the fixture electrical compartment. (For Large Only)

12 Poles:

See Kim Pole Catalog for a complete selection of square and round poles in aluminum or steel.

13 Optional Vertical Slipfitter Mounts:



Round

Cat. No.
VSF-1SA
VSF-2SB
VSF-2SL
VSF-3ST
VSF-3SY
VSF-4SC



Square

Cat. No.
SVSF-1SA
SVSF-2SB
SVSF-2SL
SVSF-3ST
SVSF-4SC

Mounting Configuration
1SA - Single arm mount
2SB - 2 at 180°
2SL - 2 at 90°
3ST - 3 at 90°
3SY - 3 at 120°
4SC - 4 at 90°

Allows standard fixture and arm to be mounted to poles having a 2" pipe-size tenon (2 3/8" O.D. x 4 1/2" min. length).

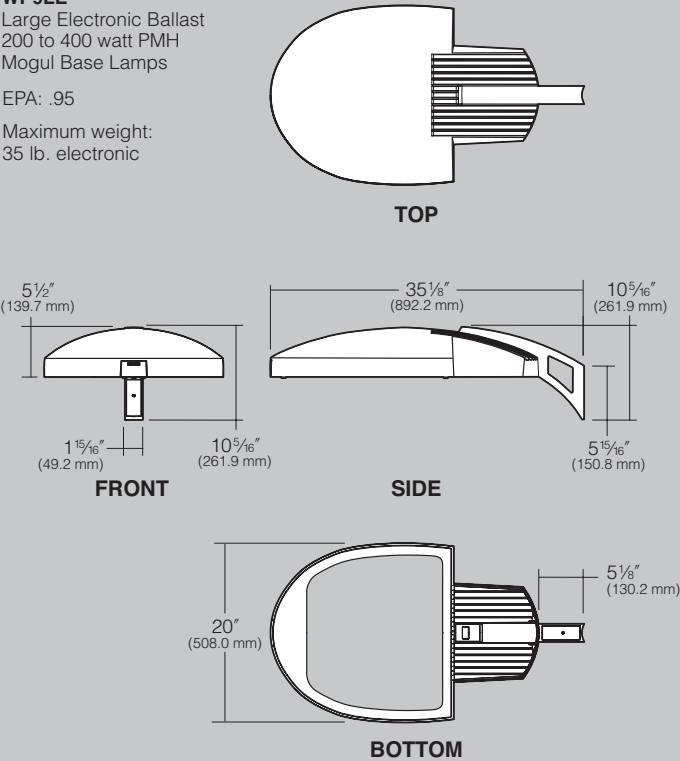
Luminaire Specifications

Dimensions - Electronic Ballast

WP9LE
Large Electronic Ballast
200 to 400 watt PMH
Mogul Base Lamps

EPA: .95

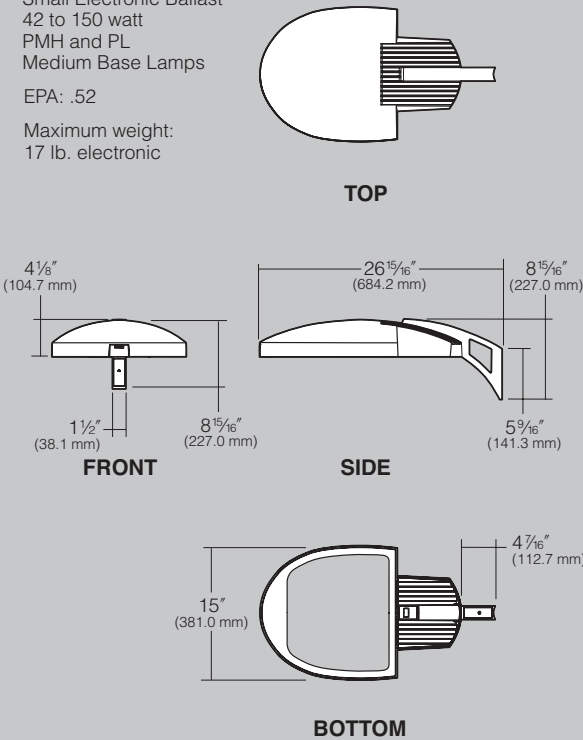
Maximum weight:
35 lb. electronic



WP9SE
Small Electronic Ballast
42 to 150 watt
PMH and PL
Medium Base Lamps

EPA: .52

Maximum weight:
17 lb. electronic



SPECIFICATIONS

HOUSING: One-piece die-cast, low copper alloy (<0.6% Cu) aluminum with integral cooling ribs over the electrical compartment. Solid barrier wall separates optical and electrical compartments. A single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber. A one-piece extruded and vulcanized silicone gasket seals the housing against the lens surface.

ELECTRONIC BALLAST MODULE: One-piece die-cast, low copper alloy (<0.6% Cu) aluminum with integral cooling ribs over exposed bottom surface. Integral hinges and slide latch with stainless steel hardware provides no-tool mounting and removal from housing. All electronic components are UL and CSA recognized and mounted directly to the ballast tray for maximum heat dissipation.

MAGNETIC BALLAST MODULE: One-piece die-cast, low copper alloy (<0.6% Cu) aluminum with integral cooling ribs over exposed bottom surface. Integral hinges and slide latch with stainless steel hardware provides no-tool mounting and removal from housing. All electrical components are UL and CSA recognized and mounted directly to the ballast tray for maximum heat dissipation.

LENS: Clear 3/16" thick tempered glass lens retained by a stainless steel piano hinge and a single die-cast aluminum cam-latch. The edges are camouflaged to conceal the outer portion of the housing.

REFLECTOR MODULE: High specular optical segments are rigidly mounted within carrier plates to maintain form. No fasteners are placed on the reflective surface. The entire assembly is rotatable in 90° increments and fastened to the housing as a one-piece module. The appropriate socket is rigidly attached to the reflector module.

SUPPORT ARM: Heavy cast, low copper alloy aluminum with stainless steel mounting bolts. A pole reinforcing plate is provided with wire strain relief. Arm is circular cut for specified round pole.

FINISH: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Stealth Gray, Platinum Silver, or White. Custom colors are available

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

Listings and Ratings			
UL cUL I 598 ¹	CE	IP66	25C Ambient

¹Suitable for wet locations.

Kim Lighting reserves the right to change specifications without notice.

Dimensions - Magnetic Ballast

WP9LM

Large Magnetic Ballast

150 to 400 watt

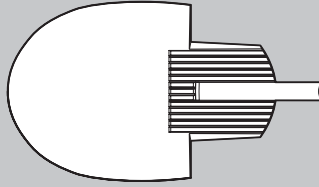
PMH, HPS and MH
Medium or

Mogul Base Lamps

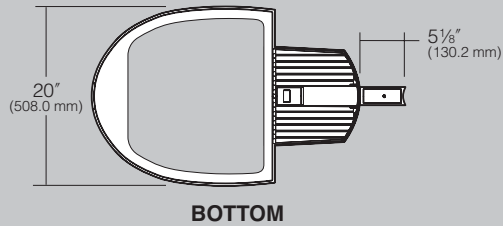
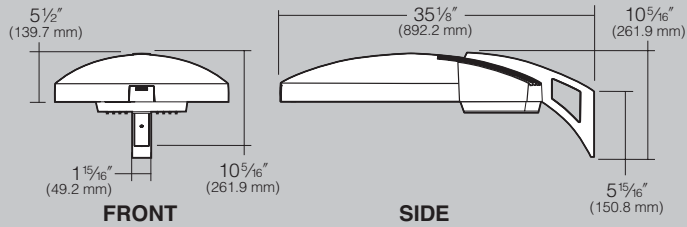
EPA: .95

Maximum weight:

41 lb. magnetic



TOP



WP9SM

Small Magnetic Ballast

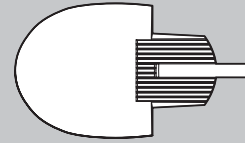
70 to 175 watt

PMH, HPS and MH
Medium Base Lamps

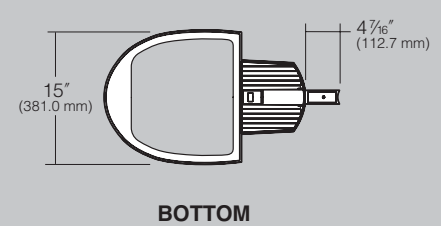
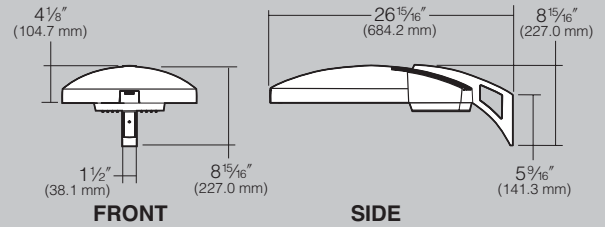
EPA: .52

Maximum weight:

21 lb. magnetic



TOP



Lamp Guide

Lamp Watts	Lamp Type	System Watt	Bulb Type	Initial Lumens	Life (Hours)	ANSI Code	Starting Temp	Circuit Type	Voltage	Operating Amps.	Open Circuit Amps.	Starting Amps.	Min. Fuse Amps.
PULSE START METAL HALIDE													
70	PMH	90	Clear; ED17, Med Base Clear; T6, G12 Base	6,200 6,600	16,000	M98 M143	-30C	HX-HPF	120	0.85	1.90	0.80	4
									208	0.52	1.00	0.50	3
									240	0.44	0.90	0.43	2
									277	0.39	0.80	0.39	2
									347	0.28	0.70	0.20	2
									480	0.23	0.50	0.26	2
70	PMH	80	Clear; ED17, Med Base Clear; T6, G12 Base	6,200	16,000	M98 M143 M139	-30C	Electronic	120	-	-	0.67	4
									208	-	-	0.45	3
									240	-	-	0.38	2
									277	-	-	0.30	2
100	PMH	129	Clear; ED17, Med Base	9,000	16,000	M140	-30C	HX-HPF	120	1.15	2.30	1.20	6
									208	0.66	1.40	0.80	4
									240	0.58	1.15	0.65	3
									277	0.50	1.00	0.60	3
									347	0.40	1.00	0.40	2
									480	0.30	0.55	0.30	2
100	PMH	110	Clear; ED17, Med Base	9,000	16,000	M90 M140	-30C	Electronic	120	-	-	0.92	6
									208	-	-	0.70	4
									240	-	-	0.60	3
									277	-	-	0.40	3
150	PMH	185	Clear; ED17, Med Base Clear; T6, G12 Base	14,000	16,000	M102 M142	-30C	HX-HPF	120	1.60	3.65	1.75	10
									208	1.00	2.10	1.30	5
									240	0.80	1.80	0.85	5
									277	0.70	1.58	0.77	4
									347	0.55	1.25	0.65	3
									480	0.42	0.81	0.45	3
150	PMH	165	Clear; ED17, Med Base Clear; T6, G12 Base	14,000	16,000	M102 M142	-30C	Electronic	120	-	-	1.40	10
									208	-	-	1.00	5
									240	-	-	0.80	5
									277	-	-	0.60	4
200	PMH	240	Clear; T15, Mogul Base	19,000	15,000	M136	-30C	Super CWA	120	2.00	2.00	0.75	6
									208	1.20	1.20	0.40	4
									240	1.00	1.00	0.35	3
									277	0.85	0.85	0.30	3
									347	0.70	0.65	0.25	2
									480	0.50	0.50	0.18	2
200	PMH	229	Clear; T15, Mogul Base	19,000	15,000	M136	-30C	Electronic	120	-	-	2.00	6
									208	-	-	1.20	4
									240	-	-	1.00	3
									277	-	-	1.00	3
250	PMH	295	Clear; BT28, Mogul Base	22,500	11,250	M138 M153	-30C	CWA	120	2.50	1.40	2.30	8
									208	1.45	0.80	1.30	5
									240	1.25	0.70	1.15	5
									277	1.10	0.60	1.00	3
									347	0.95	0.75	0.45	3
									480	0.57	0.48	0.21	2
250	PMH		Clear; BT28, Mogul Base	22,500	11,250	M138 M153	-30C	Electronic	208	-	-	1.36	5
									240	-	-	1.19	3
									277	-	-	1.06	3
320	PMH	368	Clear; BT28, Mogul Base	30,000	20,000	M132 M154 M170	-30C	Super CWA	120	3.25	2.30	1.80	8
									208	1.90	1.35	1.05	6
									240	1.65	1.15	0.90	5
									277	1.40	1.00	0.80	3
									347	1.10	0.80	0.70	3
									480	0.80	0.60	0.45	5
320	PMH		Clear; BT28, Mogul Base	30,000	20,000	M132 M154 M170	-30C	Electronic	208	-	-	1.70	8
									240	-	-	1.49	6
									277	-	-	1.32	5
350	PMH	400	Clear; BT28, Mogul Base	33,000	20,000	M131 M171	-30C	Super CWA	120	3.40	2.20	2.20	10
									208	2.00	1.30	1.30	7
									240	1.70	1.10	1.10	5
									277	1.50	1.00	1.00	5
									347	1.20	0.80	0.85	3
									480	0.85	0.60	0.60	3
350	PMH		Clear; BT28, Mogul Base	33,000	20,000	M131 M171	-30C	Electronic	208	-	-	1.84	10
									240	-	-	1.59	7
									277	-	-	1.41	5
400	PMH	452	Clear; BT28, Mogul Base	40,000	20,000	M135 M155 M172	-30C	Super CWA	120	4.00	3.00	3.50	10
									208	2.30	1.75	2.00	7
									240	2.00	1.50	1.75	5
									277	1.75	1.30	1.50	5
									347	1.35	0.75	1.10	4
									480	1.00	0.60	0.75	3
400	PMH		Clear; BT28, Mogul Base	40,000	20,000	M135 M155 M172	-30C	Electronic	208	-	-	2.10	10
									240	-	-	1.81	7
									277	-	-	1.59	5

Lamp Watts	Lamp Type	System Watt	Bulb Type	Initial Lumens	Life (Hours)	ANSI Code	Starting Temp	Circuit Type	Voltage	Operating Amps.	Open Circuit Amps.	Starting Amps.	Min. Fuse Amps.
METAL HALIDE													
175	MH	210	Clear; ED17, Med Base	14,400	7,000	M57	-30C	CWA	120	1.80	1.80	1.30	5
									208	1.04	1.04	0.75	3
									240	0.90	0.90	0.65	3
									277	0.80	0.80	0.55	2
									347	0.65	0.65	0.50	2
									480	0.45	0.45	0.35	2
250	MH	295	Clear; BT28, Mogul Base	23,000	7,000	M58	-30C	CWA	120	2.60	2.60	1.00	8
									208	1.50	1.50	0.60	5
									240	1.30	1.30	0.50	5
									277	1.10	1.10	0.45	3
									347	0.85	1.05	0.35	3
									480	0.65	0.65	0.30	2
400	MH	458	Clear; BT28, Mogul Base	40,000	15,000	M59	-30C	CWA	120	4.00	3.20	2.50	10
									208	2.30	1.80	1.40	7
									240	2.00	1.60	1.20	5
									277	1.70	1.50	1.00	5
									347	1.35	1.35	0.80	4
									480	1.00	0.75	0.90	3
HIGH PRESSURE SODIUM													
70	HPS	91	Clear; ED17, Med Base	6,300	24,000	S62	-40C	HX-HPF	120	0.81	1.45	0.75	6
									208	0.47	0.85	0.45	4
									240	0.4	0.75	0.37	3
									277	0.35	0.65	0.35	3
									347	0.3	0.55	0.3	2
									480	0.21	0.36	0.21	2
100	HPS	130	Clear; ED17, Med Base	9,500	24,000	S54	-40C	HX-HPF	120	1.15	2.20	1.30	7
									208	0.67	1.25	0.75	5
									240	0.58	1.10	0.65	3
									277	0.50	0.85	0.60	3
									347	0.39	0.70	0.45	3
									480	0.22	0.34	0.21	3
150	HPS	188	Clear; ED17, Med Base	16,000	24,000	S55	-40C	HX-HPF	120	1.65	2.80	2.00	10
									208	0.95	1.60	1.15	5
									240	0.83	1.40	1.00	5
									277	0.72	1.25	0.85	4
									347	0.56	0.92	0.52	3
									480	0.42	0.70	0.50	2
250	HPS	295	Clear; E18, Mogul Base	29,000	24,000	S50	-40C	CWA	120	2.50	1.70	1.65	7
									208	1.50	1.00	0.95	4
									240	1.30	0.85	0.80	4
									277	1.10	0.75	0.70	3
									347	0.93	0.70	0.60	2
									480	0.63	0.45	0.40	2
400	HPS	464	Clear; E18, Mogul Base	51,000	24,000	S51	-40C	CWA	120	3.80	2.00	3.30	10
									208	2.20	1.20	1.80	6
									240	1.90	0.95	1.50	5
									277	1.70	0.85	1.40	5
									347	1.32	0.70	1.00	5
									480	0.97	0.55	0.75	3
COMPACT FLUORESCENT													
42	PL	46	Coated, GX24q-4 Base	3,200	12,000	N/A	-18C	Electronic	120	-	-	0.39	2
									208	-	-	0.23	2
									240	-	-	0.20	2
									277	-	-	0.17	2
57	PL	59	Coated, GX24q-5 Base	4,300	12,000	N/A	-10C	Electronic	120	-	-	0.80	2
									208	-	-	0.40	2
									240	-	-	0.27	2
									277	-	-	0.21	2
60	PL	70	Coated, 2G8-I Base	4,000	20,000	N/A	-30C	Electronic	120	-	-	0.59	2
									208	-	-	0.40	2
									240	-	-	0.32	2
									277	-	-	0.26	2

All **Initial Lumen** values shown are approximate and may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

WARNING: All fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury. Lamps by others.