

# Entablature®

Rectilinear Luminaire

70 - 400 Watt



**KIM LIGHTING**

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**SITE / AREA**  
**PARKING STRUCTURE**  
**ROADWAY**  
**ARCHITECTURAL FLOOD**  
**ACCENT**  
**LANDSCAPE**

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The “shoebox” luminaire was first introduced to outdoor lighting over thirty years ago. It revolutionized area lighting because it was the first luminaire to demonstrate that performance, glare control and architectural compatibility could be accomplished in a single fixture design.

Today, the “shoebox” is still widely used. However, its compatibility with architecture is declining because it has failed to evolve with the changes that have occurred in architectural design and industrial design. Today’s architecture demands a new rectilinear luminaire that reflects the latest thinking in industrial design, and readily adapts to the unique forms and accent colors that are often used to create distinctive character in building exteriors.

The Entablature® has been created as the “chameleon” of rectilinear luminaires. It can be whatever the specifier wants it to be; a contemporary box luminaire reflecting the latest in industrial design, or an intriguing extension of the surrounding architecture. It is the next generation of outdoor luminaires and another Kim innovation.

The **ET** (Large Entablature®) is available in HID lamp modes up to 400 watts. As such, it is most often mounted on 20’ to 30’ poles in single or multiple fixture configurations. The fixture has been sized to look in-scale at these heights, and is considerably smaller and less obtrusive than many existing box luminaires.

The **SET** (Small Entablature®) has been scaled to complement the larger model at lower mounting heights of 10’ to 16’. Available up to 175 watts H.I.D., the smaller model is ideal for pathways and courtyards where fixtures should be at human scale. When used together, the large and small Entablatures can provide a logical transition from parking lot to pathway and building entrance by decreasing luminaire scale while maintaining consistent design.





# Kim Theory of Relativity

## The Relationship of Outdoor Lighting to Site and Architecture



ET Large Entablature®



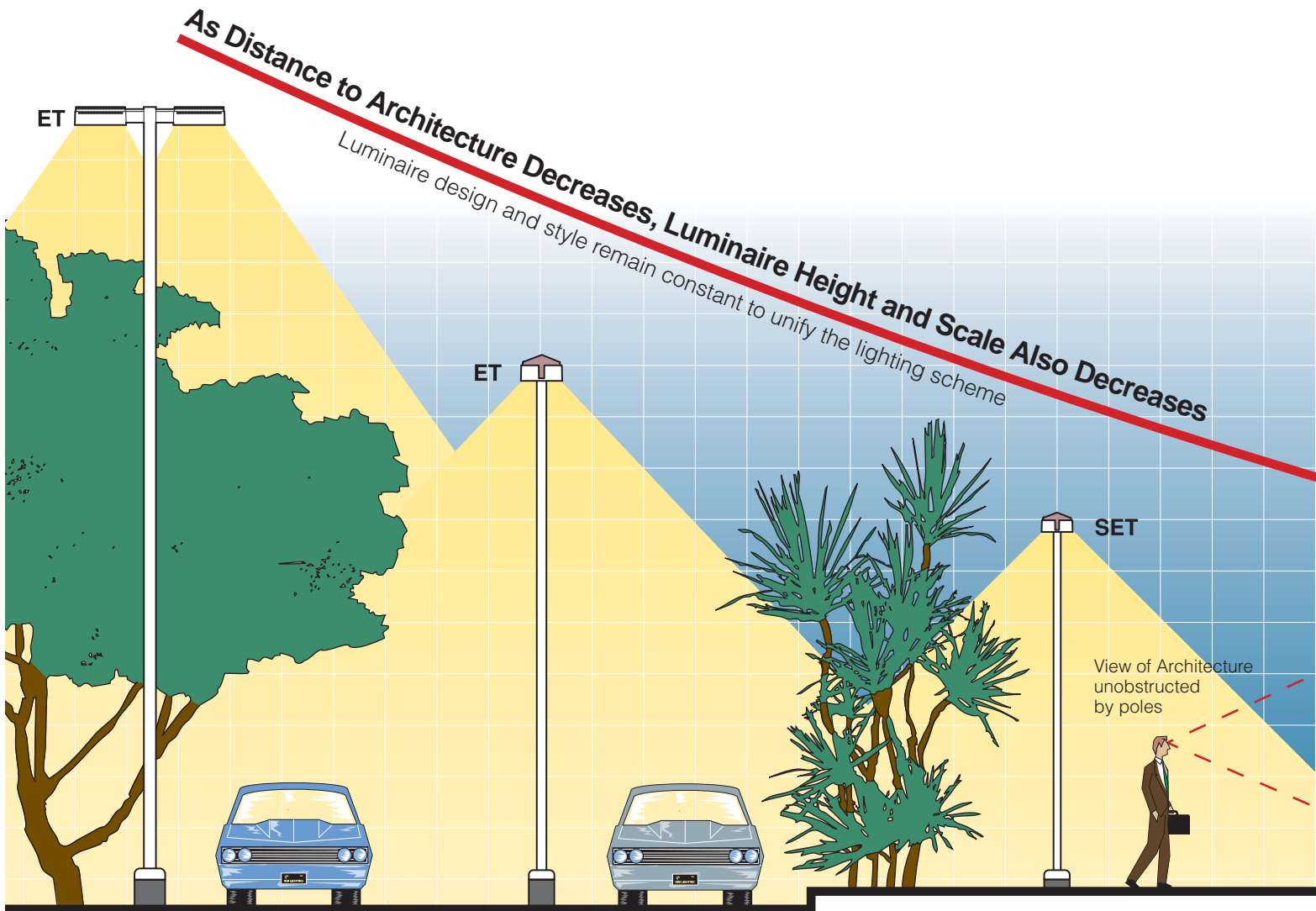
SET Small Entablature®



SL Site Lightform



LTV Lightvault®



### SITE / ROADWAY ZONE

Parking lots and roadways require luminaires on 20' - 40' poles to efficiently light these large areas. Therefore, this lighting becomes dominant, and sets the design and style for all other lighting as you progress towards the building.

### PEDESTRIAN ZONE

As you leave the parking lot and transition to pedestrian areas, poles should decrease in height to 10' - 16'. In addition, luminaires should decrease in scale, and can have more decorative features to be appreciated at the pedestrian level.



**AFL** Architectural Floodlight



**LLF** Low Level Floodlight



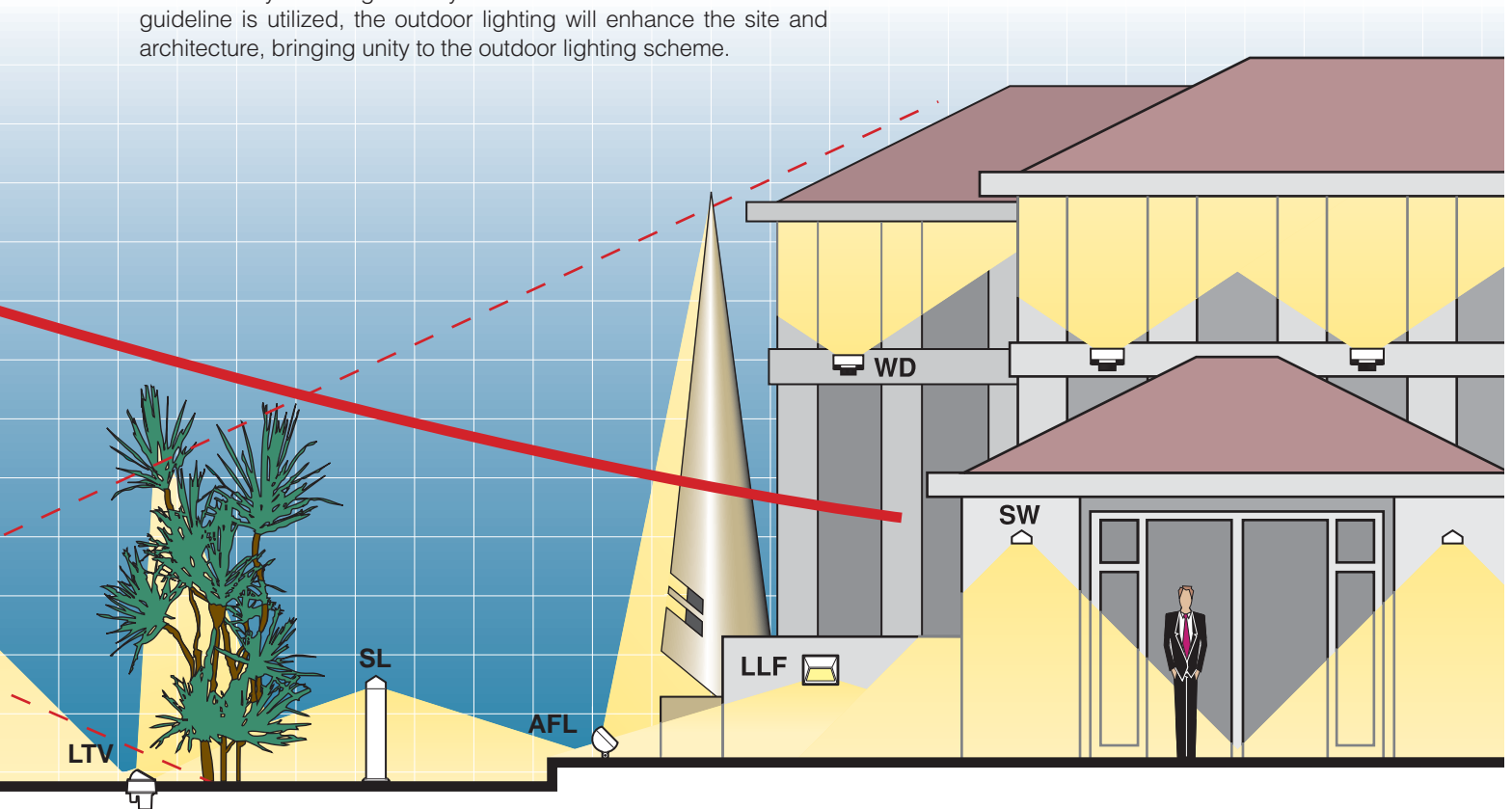
**SW** Site Wallform



**WD** Wall Director®

## KIM THEORY OF RELATIVITY

The purpose of this guideline is to bring a cohesive look to outdoor lighting, maximizing lighting efficiency while preserving the architectural experience. Simply stated, the Kim Theory of Relativity says “Poles belong in parking lots. And, once you leave the parking lot, the outdoor lighting should become less and less conspicuous until it becomes an integral part of the architecture.” In addition, the luminaire style and geometry should remain consistent. If this guideline is utilized, the outdoor lighting will enhance the site and architecture, bringing unity to the outdoor lighting scheme.



### LANDSCAPE / PATH ZONE

Near the building, luminaires should begin to disappear, blending into the landscape and hardscape elements.

### BUILDING / PERIMETER ZONE

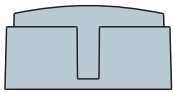
No pole mounted luminaires should ever be used near the building, as they will dominate the architecture. The only exception would be the use of decorative luminaires to delineate entrances to the structure. Building mounted, architecturally compatible fixtures should be almost invisible.

# Standard Fixtures

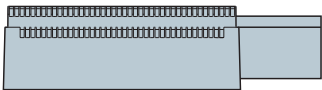
Foremost, The Entablature is a rectilinear luminaire designed to complement rectilinear architecture. Its sharp corners and straight lines exude precision and quality while the outward appearance is always a box from normal viewing angles.

Yet, The Entablature is far more than just a box. Contemporary principles of industrial design have been used to provide design logic and functional expressiveness. For example, the fixture top has been crowned to provide efficient water runoff. Cooling fins have been added to critical surfaces, producing a self-cooling function that lowers temperatures on heat-sensitive electrical components. This promotes extended life for these internal electrical elements.

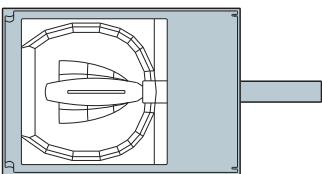
The slight recess in both ends of the fixture has three functions. First, it provides a cradle for the mounting arm to aid in the alignment of fixture and pole. Second, it unifies the entire luminaire design by carrying a visual imprint of the arm through the fixture to the opposite side. And third, it provides a surface to add the optional entablature elements as described on the opposite page.



Front View



Side View



Bottom View

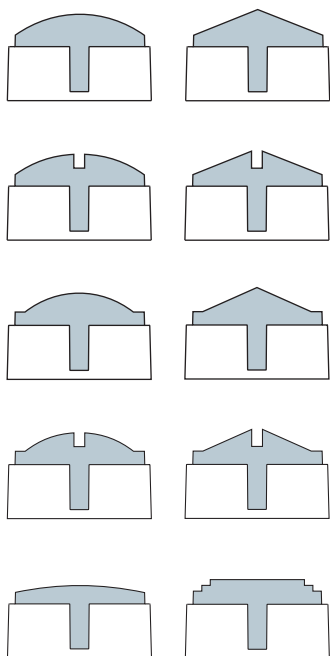


Today's architecture is often eclectic. Different geometric forms are frequently combined in a single structure, and classic architectural elements are often mixed with contemporary. Accent colors are utilized to create additional visual impact, particularly in the competitive world of retail stores.

The Entablature is the first luminaire to offer specifiers the unique option of visually linking the fixture to the architecture. This is accomplished by adding a front and rear element to the luminaire that duplicates a dominant feature of the building. The entablature elements can work in any of the following ways:

1. A distinctive roofline, or an entablature, can be duplicated in the luminaire.
2. A distinctive geometric facade can be duplicated in the luminaire.
3. An accent color can be added to the fixture by painting the entablature element to match the building.

Kim offers ten standard entablatures (shown below and on page 18). Custom entablatures are available provided they can be produced in sheet aluminum and meet our minimum requirements. Contact your local Kim representative.

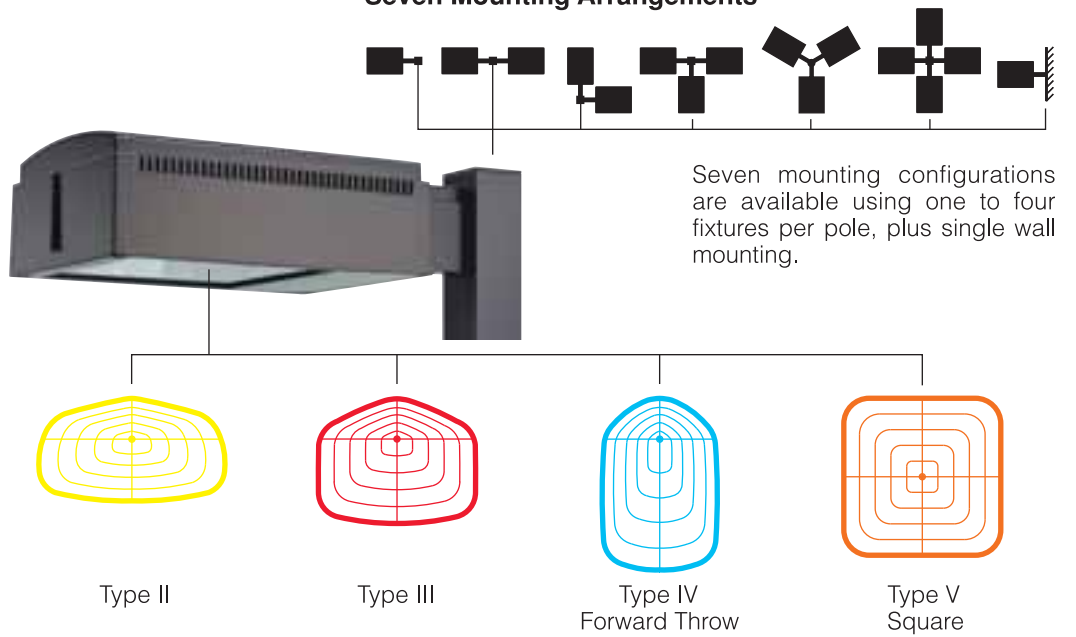


## Four Light Distributions

Site geometry determines the specific light distribution or combination of light distributions that will efficiently light the areas. Twenty-five years of cutoff lighting experience has shown us that four light distributions will satisfy any site requirement, from parking lots and roadways to pathways and courtyards.

The Entablature is available in four highly efficient light patterns as shown at right. Combine these with seven mounting arrangements and you have an incredibly versatile lighting system that will efficiently light any site. In addition, houseside shields are available for locations where spill light must be restricted from adjacent property. See page 17.

## Seven Mounting Arrangements



Houseside shields available on Types II, III and IV distributions only.







# Mechanical Design

## Die-Cast Aluminum Components

The Entablature housing and door frame are die-cast aluminum for precision and repeatability. The housing is internally reinforced at the arm connection, and cooling fins are integral with the top surfaces. This self-cooling feature substantially reduces the operating temperatures on heat-sensitive electrical components, promoting extended life.

The door frame is extra thick for rigidity, allowing dependable sealing of the optical chamber through uniform gasket pressure. Concealed thumb latches are designed into the front corners of the frame, allowing no-tool entry for lamp and ballast access.



Cooling fins double the top surface area, allowing rapid dissipation of internal heat through the fixture top.



Kim poles have cast aluminum caps, flush mounted by a single top screw which activates an internal grip. No fasteners appear on the pole sides.

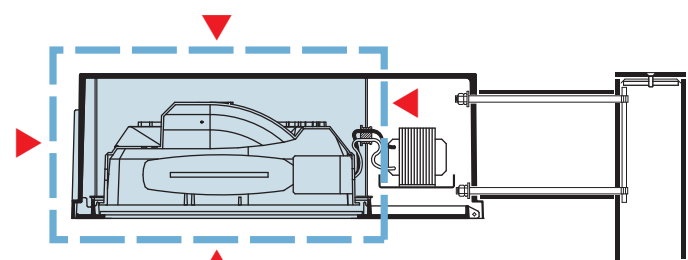


The mounting arm is an aluminum extrusion configured to complement the fixture lines. Internal bolt tracks align the arm and conceal the fixture-to-pole mounting hardware.

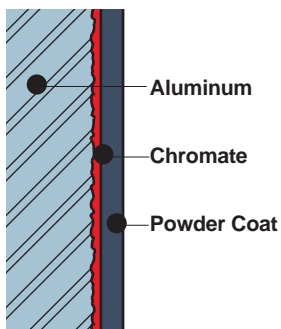


## Totally Sealed Optics

Kim die-cast reflector systems stay exceptionally clean and efficient for two reasons. First, we use only one piece silicone gaskets which have high memory retentive qualities and very low outgassing. Second, we seal the optical chamber from all moisture, air and insect entry both externally and internally.



Moisture, air and insect barrier.



## Eight Stage Finish

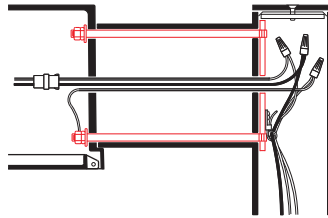
The Entablature is available in four standard Kim colors plus custom color options. Finish is Super TGIC thermoset polyester powder coat paint applied over a chromate conversion coating as follows:

1. Power wash and degrease.
2. Detergent tank bath.
3. Clear water rinse bath.
4. Chromate bath, the best known pretreatment of aluminum for corrosion resistance and paint adhesion.
5. Clear water rinse bath.
6. Dry off oven.
7. Powder coating, 2.5 mil nominal thickness.
8. Bake for 20 minutes at 410°F. 2500 hour salt spray test rated.

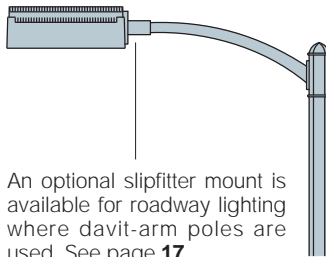
## Easy Installation

The attachment of lighting fixtures to poles is often a neglected detail that ruins a clean design with exposed nuts, bolts or screws. The Entablature® arm connection is both clean and strong, utilizing an internal draw-bolt system concealed within the arm, fixture and pole.

Inside the pole top, a reinforcing plate receives the draw-bolts. A strain relief is provided on the reinforcing plate for securing the field wires. The one piece arm extrusion has internal bolt guides which position and hold the arm during mounting. Final securing is accomplished inside the fixture using a socket wrench. Ample room is provided because the ballast module and lens frame snap out. The arm extrusion is configured to complement the fixture design and make the fixture-to-pole connection look homogeneous.



Standard fixture-to-pole connection using internal draw-bolts.



An optional slipfitter mount is available for roadway lighting where davit-arm poles are used. See page 17.



## No-Tool Maintenance

Ease of maintenance is a feature that distinguishes a lifetime product from an inferior substitution. The Entablature utilizes modular construction for easy installation and maintenance, and to allow for upgrading as lamp technology advances.

To reduce expensive lift-truck rental time, relamping can be quickly accomplished without tools. The lens frame is opened by two thumb-latches located at the front corners of the lens frame. If ballast replacement is required, the entire electrical module snaps out without tools, and includes quick-disconnect plugs on all wiring. A spare module can be quickly inserted to eliminate downtime, while the old module can be repaired and stored for future use.

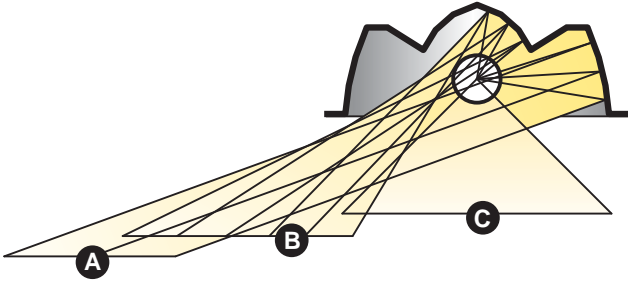
The lens frame is also removable without tools, providing for easier fixture mounting and lens replacement in the unusual event that breakage occurs. For additional safety during relamping, the door frame is prevented from lifting out of its hinges when hanging in the normal down position.



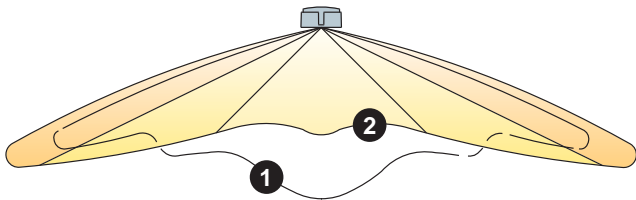
# Optical Design / Versatility

## Full Cutoff

The Entablature utilizes die-cast reflectors with a horizontal lamp orientation, and flat glass lens to produce full cutoff with zero light above 90° horizontal. In addition, the reflector system has been carefully engineered to provide maximum pole spacing with outstanding visual uniformity. The primary reflector panels are highly specular to achieve precise lamp arc reflections toward the proper areas on the ground. Excessive straight-down illumination is avoided by the elimination of downward reflecting surfaces.



- A. High-angle maximum candlepower and sharp cutoff are produced by the smooth specular side panels.
- B. A specular peened upper reflector spreads light into the mid-range, gradually increasing the intensity toward higher angles while avoiding any low-angle reflections.
- C. At low angles, bare lamp illumination is more than adequate. The elimination of downward reflecting surfaces greatly increases uniformity.

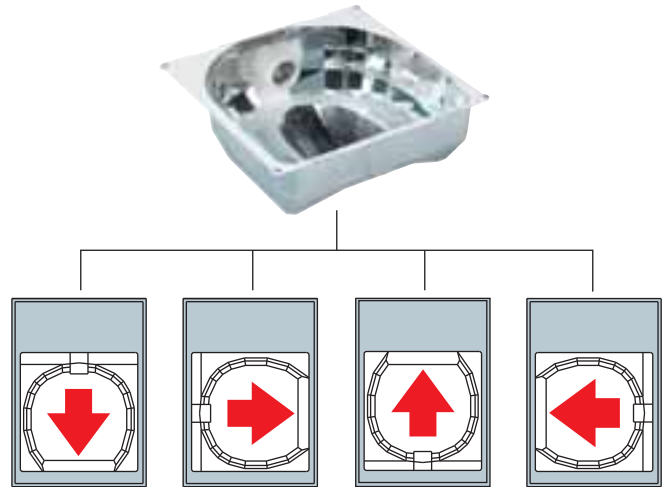


- 1. Typical horizontal lamp "shoebox" luminaires produce excessive straight-down illumination in relation to the side throw. This causes poor uniformity.
- 2. The Entablature reflectors have reduced straight-down illumination with increased side throw. This produces excellent pole spacing and uniformity.



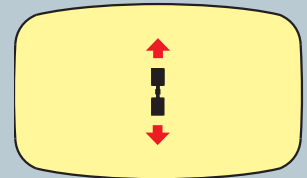
## Rotatable Optics

All Entablature die-cast reflectors are field rotatable in 90° increments. This allows design flexibility in producing very high illumination levels for special applications or for maintaining a consistent fixture orientation throughout the site. To facilitate field rotation, each reflector is labeled to show the orientation of the light pattern.

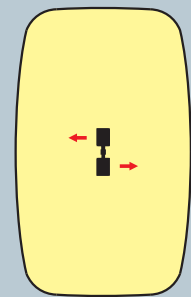


Rotatable reflectors offer a degree of refinement in fixture orientation when the architecture and site demand perfection.

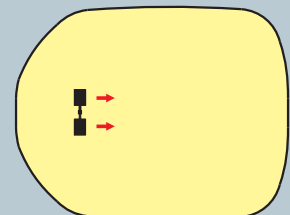
When the twin-mounted luminaires are used for site lighting using Types II, III or IV distributions, the combined effect from the twin mount is a rectangular light pattern.



To change the orientation of the rectangular pattern, you normally change the orientation of the twin mount. An alternative to this is shown at right where the fixture orientation remains constant and the internal reflectors rotate to change the orientation of the rectangular light pattern. This can maintain identical fixture orientations throughout the site.



For applications demanding high light levels, such as tennis courts and automobile dealerships, reflectors can be rotated in parallel to double the light levels. Houseside shields can be added to the fixtures for reducing spill light into unwanted areas behind the luminaires. See page 17.



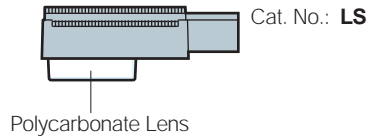
# Ordering Information

## Large Entablature



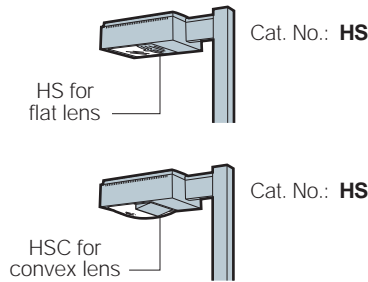
<p><b>Ordering Example:</b> For Standard Fixture and Pole</p> <p>Optional Entablature</p>	<p>Mounting    Fixture    Electrical Module    Finish    Options    Optional Entablature    Pole</p> <p><b>2B / ET3 / 250HPS277 / BL / A-25 / [A2/LG] / PSA25-5188B / BL</b></p> <p><b>1    2    3    4    5-11    See p. 18    12</b></p> <p>See page <b>18</b> for standard entablature specifications. For custom entablatures, contact your local Kim representative.</p> <p>See separate Kim Pole Catalog. Omit for <b>1W</b> Wall Mount.</p>																																																																																										
<p><b>1 Mounting:</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p> <p>EPA:            1.8            3.6            2.6            4.1            4.1            4.7            n/a</p> <p>Cat. No.:       <b>1A</b>            <b>2B</b>            <b>2L</b>            <b>3T</b>            <b>3Y</b>            <b>4C</b>            <b>1W</b></p>																																																																																										
<p><b>2 Fixture:</b> Cat. No. designates <b>ET</b> fixture and light distribution.</p> <p>See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.</p>	<p><b>Horizontal Lamp</b></p> <p><b>Flat Lens</b></p> <p>Light Distribution:            Type II Full Cutoff            Type III Full Cutoff            Type IV Forward Throw Full Cutoff            Type V Square Full Cutoff</p> <p>Cat. No.:                            <b>ET2</b>                            <b>ET3</b>                            <b>ET4</b>                            <b>ET5</b></p>																																																																																										
<p><b>3 Electrical Module:</b></p> <p><b>PMH</b> = Pulse Start Metal Halide</p> <p><b>MH</b> = Metal Halide</p> <p><b>HPS</b> = High Pressure Sodium</p> <p>See lamp and electrical data on pages <b>20 - 21</b> for ballast types and characteristics.</p>	<table border="1"> <tr> <td></td> <td><b>200PMH120</b></td> <td><b>250PMH120</b></td> <td><b>320PMH120</b></td> <td><b>350PMH120</b></td> <td><b>400PMH120</b></td> </tr> <tr> <td></td> <td><b>200PMH208</b></td> <td><b>250PMH208</b></td> <td><b>320PMH208</b></td> <td><b>350PMH208</b></td> <td><b>400PMH208</b></td> </tr> <tr> <td></td> <td><b>200PMH240</b></td> <td><b>250PMH240</b></td> <td><b>320PMH240</b></td> <td><b>350PMH240</b></td> <td><b>400PMH240</b></td> </tr> <tr> <td></td> <td><b>200PMH277</b></td> <td><b>250PMH277</b></td> <td><b>320PMH277</b></td> <td><b>350PMH277</b></td> <td><b>400PMH277</b></td> </tr> <tr> <td></td> <td><b>200PMH347</b></td> <td><b>250PMH347</b></td> <td><b>320PMH347</b></td> <td><b>350PMH347</b></td> <td><b>400PMH347</b></td> </tr> <tr> <td></td> <td><b>200PMH480</b></td> <td><b>250PMH480</b></td> <td><b>320PMH480</b></td> <td><b>350PMH480</b></td> <td><b>400PMH480</b></td> </tr> </table> <table border="1"> <tr> <td>Lamp Watts</td> <td>Lamp Type</td> <td>Line Volts</td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>250</b></td> <td><b>HPS</b></td> <td><b>277</b></td> <td></td> <td></td> <td></td> </tr> </table> <table border="1"> <tr> <td><b>175MH120</b></td> <td><b>250MH120</b></td> <td><b>400MH120</b></td> <td><b>150HPS120</b></td> <td><b>250HPS120</b></td> <td><b>400HPS120</b></td> </tr> <tr> <td><b>175MH208</b></td> <td><b>250MH208</b></td> <td><b>400MH208</b></td> <td><b>150HPS208</b></td> <td><b>250HPS208</b></td> <td><b>400HPS208</b></td> </tr> <tr> <td><b>175MH240</b></td> <td><b>250MH240</b></td> <td><b>400MH240</b></td> <td><b>150HPS240</b></td> <td><b>250HPS240</b></td> <td><b>400HPS240</b></td> </tr> <tr> <td><b>175MH277</b></td> <td><b>250MH277</b></td> <td><b>400MH277</b></td> <td><b>150HPS277</b></td> <td><b>250HPS277</b></td> <td><b>400HPS277</b></td> </tr> <tr> <td><b>175MH347</b></td> <td><b>250MH347</b></td> <td><b>400MH347</b></td> <td><b>150HPS347</b></td> <td><b>250HPS347</b></td> <td><b>400HPS347</b></td> </tr> <tr> <td><b>175MH480</b></td> <td><b>250MH480</b></td> <td><b>400MH480</b></td> <td><b>150HPS480</b></td> <td><b>250HPS480</b></td> <td><b>400HPS480</b></td> </tr> </table>								<b>200PMH120</b>	<b>250PMH120</b>	<b>320PMH120</b>	<b>350PMH120</b>	<b>400PMH120</b>		<b>200PMH208</b>	<b>250PMH208</b>	<b>320PMH208</b>	<b>350PMH208</b>	<b>400PMH208</b>		<b>200PMH240</b>	<b>250PMH240</b>	<b>320PMH240</b>	<b>350PMH240</b>	<b>400PMH240</b>		<b>200PMH277</b>	<b>250PMH277</b>	<b>320PMH277</b>	<b>350PMH277</b>	<b>400PMH277</b>		<b>200PMH347</b>	<b>250PMH347</b>	<b>320PMH347</b>	<b>350PMH347</b>	<b>400PMH347</b>		<b>200PMH480</b>	<b>250PMH480</b>	<b>320PMH480</b>	<b>350PMH480</b>	<b>400PMH480</b>	Lamp Watts	Lamp Type	Line Volts				<b>250</b>	<b>HPS</b>	<b>277</b>				<b>175MH120</b>	<b>250MH120</b>	<b>400MH120</b>	<b>150HPS120</b>	<b>250HPS120</b>	<b>400HPS120</b>	<b>175MH208</b>	<b>250MH208</b>	<b>400MH208</b>	<b>150HPS208</b>	<b>250HPS208</b>	<b>400HPS208</b>	<b>175MH240</b>	<b>250MH240</b>	<b>400MH240</b>	<b>150HPS240</b>	<b>250HPS240</b>	<b>400HPS240</b>	<b>175MH277</b>	<b>250MH277</b>	<b>400MH277</b>	<b>150HPS277</b>	<b>250HPS277</b>	<b>400HPS277</b>	<b>175MH347</b>	<b>250MH347</b>	<b>400MH347</b>	<b>150HPS347</b>	<b>250HPS347</b>	<b>400HPS347</b>	<b>175MH480</b>	<b>250MH480</b>	<b>400MH480</b>	<b>150HPS480</b>	<b>250HPS480</b>	<b>400HPS480</b>
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<b>175MH208</b>	<b>250MH208</b>	<b>400MH208</b>	<b>150HPS208</b>	<b>250HPS208</b>	<b>400HPS208</b>																																																																																						
<b>175MH240</b>	<b>250MH240</b>	<b>400MH240</b>	<b>150HPS240</b>	<b>250HPS240</b>	<b>400HPS240</b>																																																																																						
<b>175MH277</b>	<b>250MH277</b>	<b>400MH277</b>	<b>150HPS277</b>	<b>250HPS277</b>	<b>400HPS277</b>																																																																																						
<b>175MH347</b>	<b>250MH347</b>	<b>400MH347</b>	<b>150HPS347</b>	<b>250HPS347</b>	<b>400HPS347</b>																																																																																						
<b>175MH480</b>	<b>250MH480</b>	<b>400MH480</b>	<b>150HPS480</b>	<b>250HPS480</b>	<b>400HPS480</b>																																																																																						
<p><b>4 Finish:</b> Super TGIC powder coat paint over chromate conversion coating.</p>	<p>Color:    Black    Dark Bronze    Light Gray    Platinum Silver    White    Custom Colors</p> <p>Cat. No.: <b>BL</b>    <b>DB</b>    <b>LG</b>    <b>PS</b>    <b>WH</b>    <b>CC</b></p> <p>Consult representative for custom colors.</p>																																																																																										
<p><b>5 Optional Photocell Receptacle:</b> Receptacle provided for NEMA base photocells (by others).</p>	<p>Receptacle</p> <p>Mounting Configuration</p> <p>* - Fixture with Photocell Receptacle S - slave unit(s)</p> <p>Cat. No.: <b>A-25</b></p> <p>Allowable Wattage per fixture:            150-400W            150-250W            400W</p>																																																																																										
<p><b>6 Optional Convex Glass Lens:</b></p>	<p>Cat. No.: <b>CGL</b></p> <p>Tempered convex glass lens replaces standard flat lens. Changes light distribution from Full Cutoff to Cutoff.</p>																																																																																										

**7 Optional Polycarbonate Lens:**



Polycarbonate Lens replaces standard tempered glass lens. 250 Watt Maximum. May be used with 400HPS in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F. Changes light distribution from Full Cutoff to Cutoff. See **“CAUTION”** on page 17.

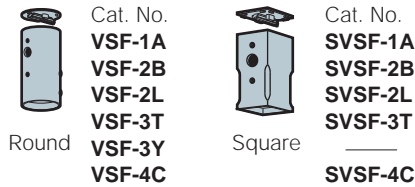
**8 Optional Houseside Shield:**



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

For use with all fixtures with convex glass lens. Not for use with Type V light distributions.

**9 Optional Vertical Slipfitter Mounts:**



<p>Mounting Configuration</p> <p>1A - Single arm mount</p> <p>2B - 2 at 180°</p> <p>2L - 2 at 90°</p> <p>3T - 3 at 90°</p> <p>3Y - 3 at 120°</p> <p>4C - 4 at 90°</p>	<p>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).</p>
---	---

**10 Optional Horizontal Slipfitter Mount:**



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.).

**11 Special Options for Street Lighting:**

Cat. No.: **TB** Terminal Block located inside the fixture electrical compartment.  
 Cat. No.: **AF** Air Filter to allow ventilation through the optical chamber.

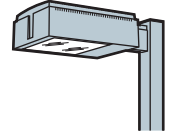
**12 Poles:**

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

# Ordering Information

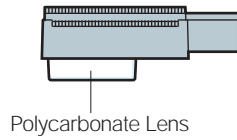
## Small Entablature

SET  
Medium Base  
70 to 175 Watt



<p><b>Ordering Example:</b> For Standard Fixture and Pole</p> <p>Optional Entablature</p>	<p>Mounting    Fixture    Electrical Module    Finish    Options    Optional Entablature    Pole</p> <p><b>1SA / SET2 / 175MH120 / WH / A-30 / [P8/BL] / PSA16-4125SA / WH</b></p> <p><b>1      2      3      4      5-11    See p. 18      12</b></p> <p>See page <b>18</b> for standard entablature specifications. For custom entablatures, contact your local Kim representative.</p> <p>See separate Kim Pole Catalog. Omit for <b>1W</b> Wall Mount.</p>																																										
<p><b>1 Mounting:</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p> <p>EPA:            1.0            2.0            1.5            2.4            2.4            2.7            n/a</p> <p>Cat. No.:    <b>1SA</b>            <b>2SB</b>            <b>2SL</b>            <b>3ST</b>            <b>3SY</b>            <b>4SC</b>            <b>1SW</b></p>																																										
<p><b>2 Fixture:</b> Cat. No. designates SET fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.</p>	<p><b>Horizontal Lamp</b></p> <p><b>Flat Lens</b></p> <p>Light Distribution:            Type II Full Cutoff            Type III Full Cutoff            Type IV Forward Throw Full Cutoff            Type V Square Full Cutoff</p> <p>Cat. No.:                            <b>SET2</b>                            <b>SET3</b>                            <b>SET4</b>                            <b>SET5</b></p>																																										
<p><b>3 Electrical Module:</b> PMH = Pulse Start Metal Halide MH = Metal Halide HPS = High Pressure Sodium PL = Compact Fluorescent See lamp and electrical data on pages 20 - 21 for ballast types and characteristics.</p>	<table border="1"> <thead> <tr> <th>Lamp Watts</th> <th>Lamp Type</th> <th>Line Volts</th> <th>70PMH120</th> <th>100PMH120</th> <th>150PMH120</th> </tr> </thead> <tbody> <tr> <td rowspan="6"><b>175</b></td> <td rowspan="6"><b>MH</b></td> <td rowspan="6"><b>120</b></td> <td>70PMH208</td> <td>100PMH208</td> <td>150PMH208</td> </tr> <tr> <td>70PMH240</td> <td>100PMH240</td> <td>150PMH240</td> </tr> <tr> <td>70PMH277</td> <td>100PMH277</td> <td>150PMH277</td> </tr> <tr> <td>70PMH347</td> <td>100PMH347</td> <td>150PMH347</td> </tr> <tr> <td>70PMH480</td> <td>100PMH480</td> <td>150PMH480</td> </tr> <tr> <td>70HPS120</td> <td>100HPS120</td> <td>150HPS120</td> </tr> <tr> <td>70HPS208</td> <td>100HPS208</td> <td>150HPS208</td> </tr> <tr> <td>70HPS240</td> <td>100HPS240</td> <td>150HPS240</td> </tr> <tr> <td>70HPS277</td> <td>100HPS277</td> <td>150HPS277</td> </tr> <tr> <td>70HPS347</td> <td>100HPS347</td> <td>150HPS347</td> </tr> <tr> <td>70HPS480</td> <td>100HPS480</td> <td>150HPS480</td> </tr> </tbody> </table>	Lamp Watts	Lamp Type	Line Volts	70PMH120	100PMH120	150PMH120	<b>175</b>	<b>MH</b>	<b>120</b>	70PMH208	100PMH208	150PMH208	70PMH240	100PMH240	150PMH240	70PMH277	100PMH277	150PMH277	70PMH347	100PMH347	150PMH347	70PMH480	100PMH480	150PMH480	70HPS120	100HPS120	150HPS120	70HPS208	100HPS208	150HPS208	70HPS240	100HPS240	150HPS240	70HPS277	100HPS277	150HPS277	70HPS347	100HPS347	150HPS347	70HPS480	100HPS480	150HPS480
Lamp Watts	Lamp Type	Line Volts	70PMH120	100PMH120	150PMH120																																						
<b>175</b>	<b>MH</b>	<b>120</b>	70PMH208	100PMH208	150PMH208																																						
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<p><b>4 Finish:</b> Super TGIC powder coat paint over chromate conversion coating.</p>	<p>Color:    Black    Dark Bronze    Light Gray    Platinum Silver    White    Custom Colors</p> <p>Cat. No.: <b>BL</b>    <b>DB</b>    <b>LG</b>    <b>PS</b>    <b>WH</b>    <b>CC</b></p> <p>Consult representative for custom colors.</p>																																										
<p><b>5 Optional Photocell Control:</b> Not available for 1W Wall Mount</p>	<p>Photocell Sensor</p> <p>Cat. No. and Line Volts:    <b>A-30</b> 120V    <b>A-31</b> 208V    <b>A-32</b> 240V    <b>A-33</b> 277V    <b>A-35</b> 347V</p> <p>Mounting Configuration</p> <p>* – Fixture with Photocell Sensor S – slave unit(s)</p> <p>No fixture wattage limit.</p>																																										
<p><b>6 Optional Convex Glass Lens:</b></p>	<p>Convex Lens</p> <p>Cat. No.: <b>CGL</b></p> <p>Tempered convex glass lens replaces standard flat lens. Changes light distribution from Full Cutoff to Cutoff.</p>																																										

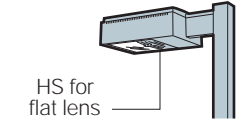
**7 Optional Polycarbonate Lens:**



Cat. No.: **LS**

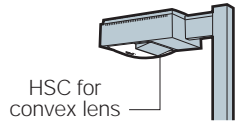
Polycarbonate Lens replaces standard tempered glass lens. Changes light distribution from Full Cutoff to Cutoff. See **“CAUTION”** on page 17.

**8 Optional Houseside Shield:**



Cat. No.: **HS**

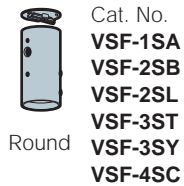
Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V light distributions.



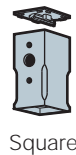
Cat. No.: **HSC**

For use with all fixtures with convex glass lens. Not for use with Type V light distributions.

**9 Optional Vertical Slipfitter Mounts:**



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

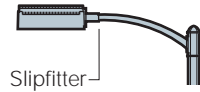


Cat. No.  
**SVSF-1SA**  
**SVSF-2SB**  
**SVSF-2SL**  
**SVSF-3ST**  
**SVSF-4SC**

Mounting Configuration  
1SA - Single arm mount  
2SB - 2 at 180°  
2SL - 2 at 90°  
3ST - 3 at 90°  
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).

**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.).

**11 Special Options for Street Lighting:**

Cat. No.: **AF** Air Filter to allow ventilation through the optical chamber.

**12 Poles:**

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

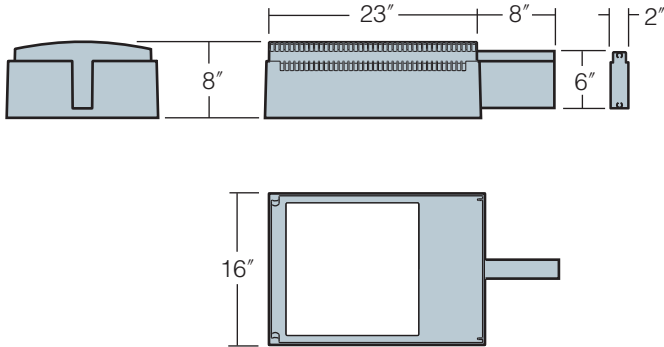
# Luminaire Specifications

## ET and SET Models

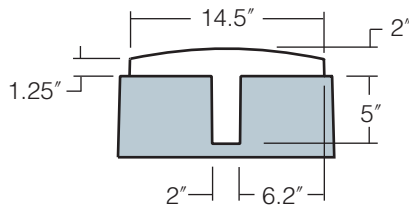
### Dimensions

#### ET Model

150 to 400 watt  
Mogul Base Lamps



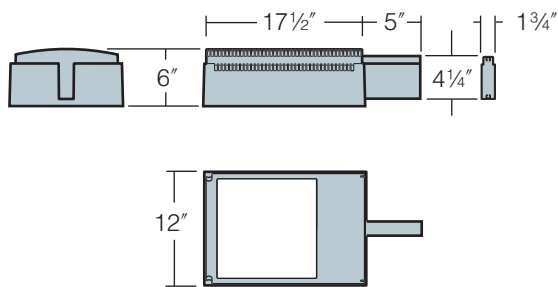
Maximum Fixture weight (400HPS) = 45 lb



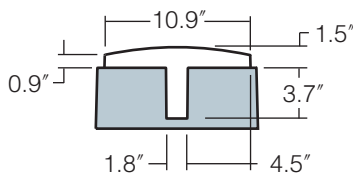
Entablature Dimensions

#### SET Model

70 to 175 watt  
Medium Base Lamps



Maximum Fixture weight (150HPS) = 25 lb



Entablature Dimensions

**Housing:** One piece die-cast aluminum with integral cooling fins on the top surfaces above the optical chamber and electrical compartment. A solid barrier wall separates the optical and electrical compartments, with gasketed wire penetrations. A double-thick wall with gussets is provided on the support arm mounting end. Inset sections on each end provide for attachment of optional entablatures, and cradle the mounting arm. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One piece die-cast aluminum with a 1" minimum thickness around the gasket flange for rigidity. Integral hinges with stainless steel pins provide no-tool mounting and removal from the housing. Two stainless steel thumb-latches are recessed into the front corners, concealed from normal view. Lens frame seals against the housing by a one piece extruded silicone gasket with vulcanized end closure. Clear 3/16" thick tempered flat or convex glass lens is retained in the frame by eight clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted in a die-cast aluminum enclosure which attaches to the housing as a one piece module. Reflector module is field-rotatable in 90° increments. ET model, all HPS and PMH sockets are porcelain mogul base rated 4KV, and MH sockets are pin-oriented with a molded silicone lamp stabilizer. SET model, MH and HPS sockets are porcelain 4KV medium base. All reflector modules are factory prewired with a quick-disconnect plug for the ballast module, with wires passing through a silicone gasket in the housing barrier wall. Four light distributions are available and interchangeable within the same housing size.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attached to housing with no-tool hinges and latches, accessible by opening the lens frame. All ballasts are high power factor with starting temperatures of -40°F for HPS and -20°F for MH lamp modes. See lamp and electrical data on pages 20 - 21 for ballast types and characteristics.

**Support Arm:** One piece extruded aluminum with internal bolt guides and a recessed step to match the housing. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. For mounting to round poles, arm is circular cut for precise mating to the pole diameter.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

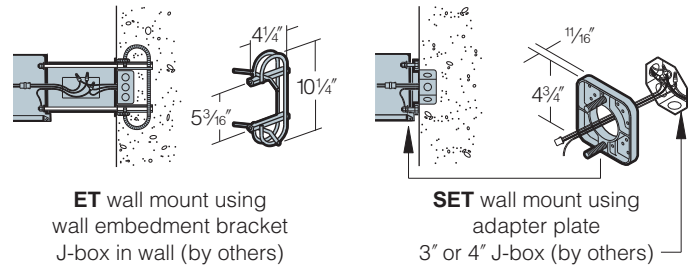
**Certification:** UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.

**CAUTION:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

See pages 12-15 for complete ordering information

**Wall Mounting:** Large ET model mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture. Small SET model mounts to 3" or 4" Junction Boxes by a cast aluminum adapter plate with fixture mounting bolts.

**NOTE:** Junction Box in wall must provide adequate fixture support. See NEC sections 370-13, 17 and 410-14, 16. Quick-disconnect plug and wiring are provided to allow field connections prior to SET fixture mounting.



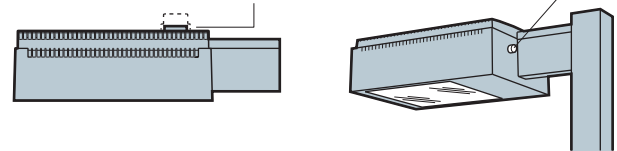
ET wall mount using wall embedment bracket J-box in wall (by others)

SET wall mount using adapter plate 3" or 4" J-box (by others)

**Photocell Control:** Large ET model supplied with a fully gasketed receptacle above the electrical compartment for NEMA base photocell (by others). 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. Small SET model supplied with an internal photocell with the sensor on the fixture end facing the pole. For multiple-fixture pole mountings, one fixture has a photocell to operate the others. Not available for SET if wall mounted (1W).

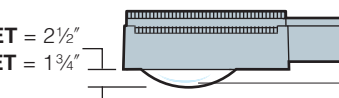
ET photocell receptacle NEMA base photocell (by others)

SET photocell sensor For pole mounted fixtures only



**Convex Glass Lens:** The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens. Provides increased lens presence and provides a subtle improvement in uniformity where pole spacing is extreme. Increases effectiveness of houseside shielding.

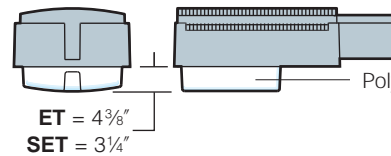
ET = 2 1/2"  
SET = 1 3/4" Convex Glass Lens



**Polycarbonate Lens:** One piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt maximum in ET model. ET model may be used with 400 watt HPS in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

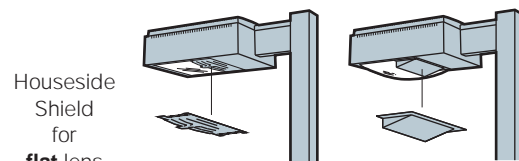
**CAUTION:** Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and metal halide lamps.

ET = 4 3/8"  
SET = 3 1/4" Polycarbonate Lens



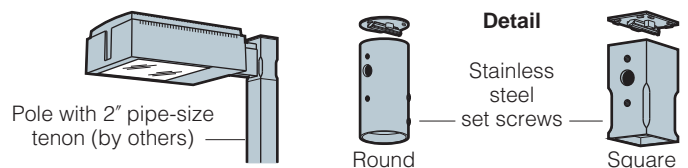
**Houseside Shield: (Types II, III, and IV only).** Fixtures with the standard flat glass lens are available with stamped aluminum louvers that pass streetside light and block houseside light, and a blackened panel added to the reflector to reduce houseside reflections. Fixtures with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to the reflector to reduce houseside reflections. Use with clear lamps only, as coated lamps reduce effectiveness.

Houseside Shield for flat lens Houseside Shield for convex lens



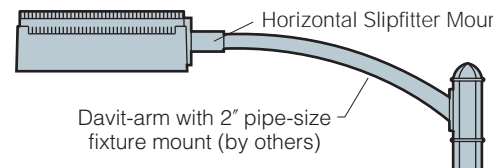
**Vertical Slipfitter Mounts:** Allows ET or SET model with standard support arm to be mounted to poles having a 2" pipe-size tenon (2 3/8" O.D. x 4 1/2" min. length). All mounting configuration can be used (ET: 1A, 2B, 2L, 3T, 3Y, 4C or SET: 1SA, 2SB, 2SL, 3ST, 3SY, 4SC). 4" square or round die-cast aluminum with flush cap, secured by four 3/8" stainless steel set point allen screws, finished to match fixture and arm.

Pole with 2" pipe-size tenon (by others) Round Square Detail Stainless steel set screws



**Horizontal Slipfitter Mount:** Replaces standard mounting arm with a slipfitter which allows ET or SET model to be mounted to a horizontal pole davit-arm with 2" pipe-size mounting end (2 3/8" O.D.). Cast aluminum clamp-type slipfitter with set screw anti-rotation lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Finished to match fixture.

Horizontal Slipfitter Mount Davit-arm with 2" pipe-size fixture mount (by others)

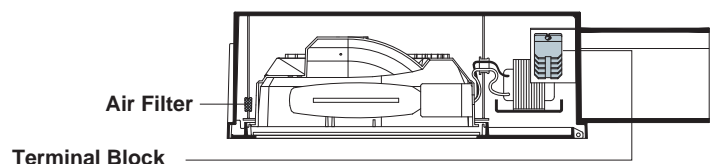


## Special Options for Street Lighting

**Air Filter:** Allows for ventilation through the optical chamber, filtering all air particles above 500 microns. Multi-layer disc assembly mounted on solid wall between optical compartment and latch cavity.

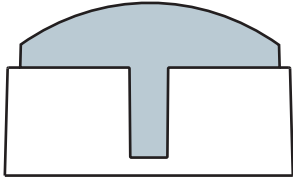
**Terminal Block:** (For field wire connections in ET model only). 85AMP, 600V box clamp terminal block mounted to the housing inside the electrical compartment. Accepts #14-4 wire. Factory prewired to electrical module quick-disconnect plug.

Air Filter Terminal Block



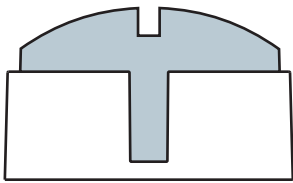
# Standard Entablature Specifications

## Arched Entablatures



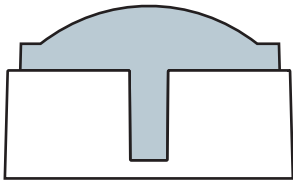
Arch

Cat. No. **A1**



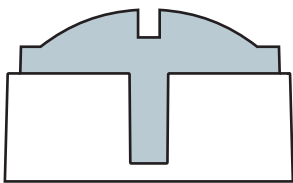
Broken Arch

Cat. No. **A2**



Stepped Arch

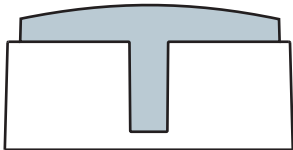
Cat. No. **A3**



Stepped Broken Arch

Cat. No. **A4**

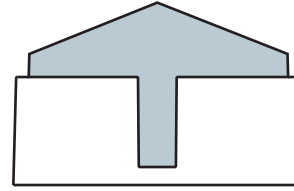
For adding an accent color only. This entablature only covers the standard recessed portion of the fixture ends.



Standard Entablature

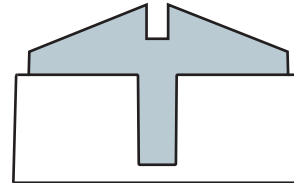
Cat. No. **A5**

## Peaked Entablatures



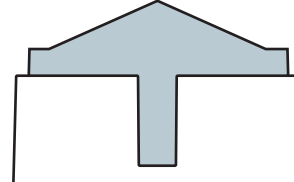
Peak

Cat. No. **P6**



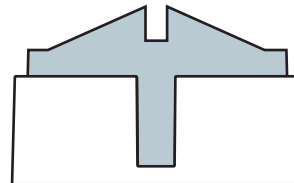
Broken Peak

Cat. No. **P7**



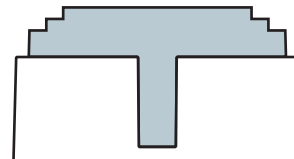
Stepped Peak

Cat. No. **P8**



Stepped Broken Peak

Cat. No. **P9**



Stepped

Cat. No. **P10**

**Entablature Specifications:** (Optional) Stamped from .090" aluminum sheet, mechanically attached to front and back of housing with no visible fasteners.

Entablatures are available in the standard Kim colors listed on pages 12 - 15. For custom colors and/or custom Entablatures, consult your Kim representative.

Specify entablature and color. Example: [ **A2/LG** ]

# Proportional Guide

## 70 to 400 Watt / 10' to 30' Poles

32'

30'

28'

26'

24'

22'

20'

18'

16'

14'

12'

10'

8'

6'

4'

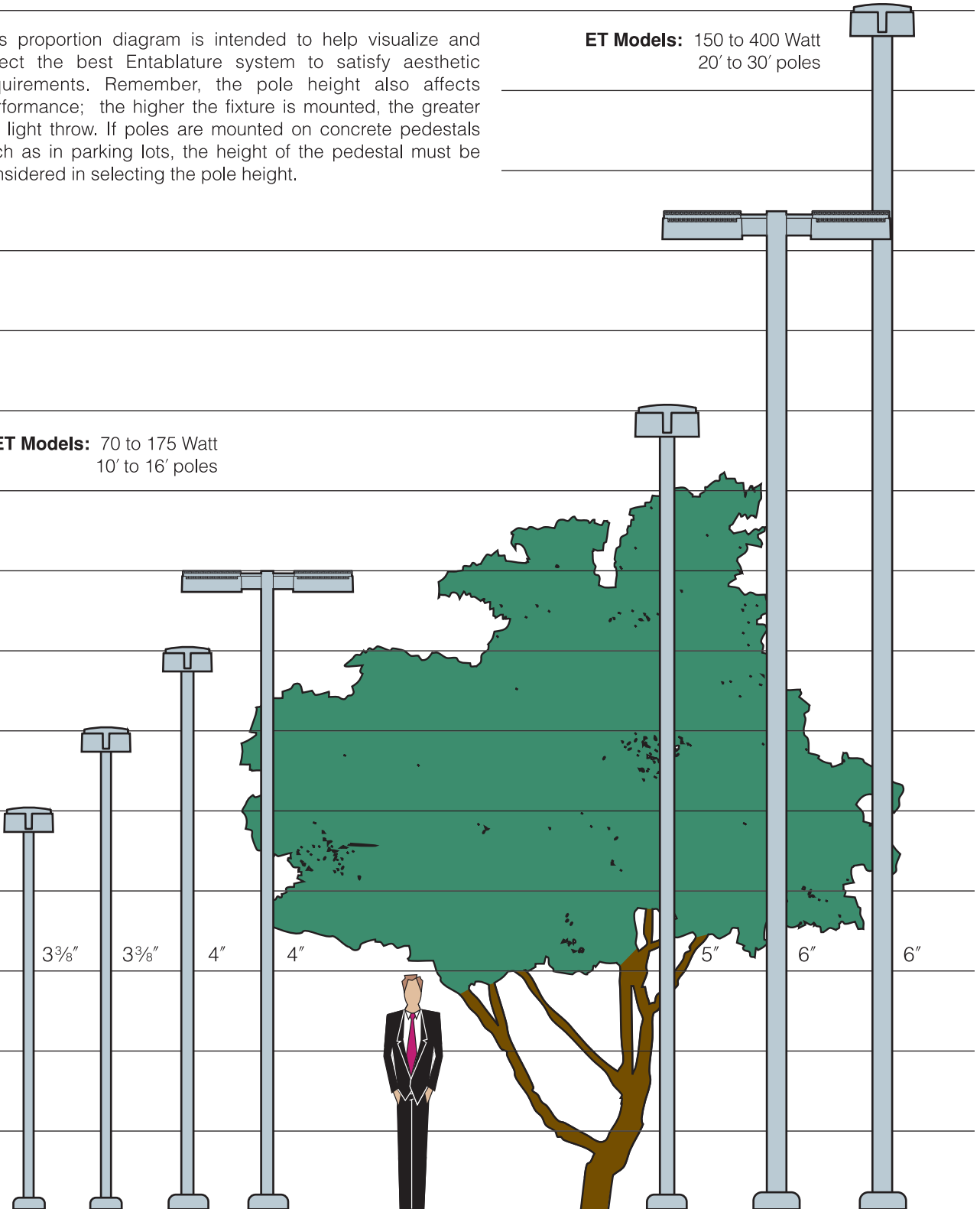
2'

GRADE

This proportion diagram is intended to help visualize and select the best Entablature system to satisfy aesthetic requirements. Remember, the pole height also affects performance; the higher the fixture is mounted, the greater the light throw. If poles are mounted on concrete pedestals such as in parking lots, the height of the pedestal must be considered in selecting the pole height.

**ET Models:** 150 to 400 Watt  
20' to 30' poles

**SET Models:** 70 to 175 Watt  
10' to 16' poles



# Lamp and Electrical 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.
<b>PULSE START METAL HALIDE</b>													
70	PMH	90	Clear, ED17, Med 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
100	PMH	129	Clear, ED17, Med Base	9,000	16,000	M90 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
150	PMH	185	Clear, ED17, Med 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
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
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
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
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
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
<b>METAL HALIDE</b>													
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

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.
<b>HIGH PRESSURE SODIUM</b>													
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
<b>COMPACT FLUORESCENT</b>													
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
									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, 2G8-1 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.