The Washington Home
&
Hospice of Wasington

EXISTING LIGHTING

LIGHTING CONCEPT

POLE LIGHTING

BOLLARD LIGHTING

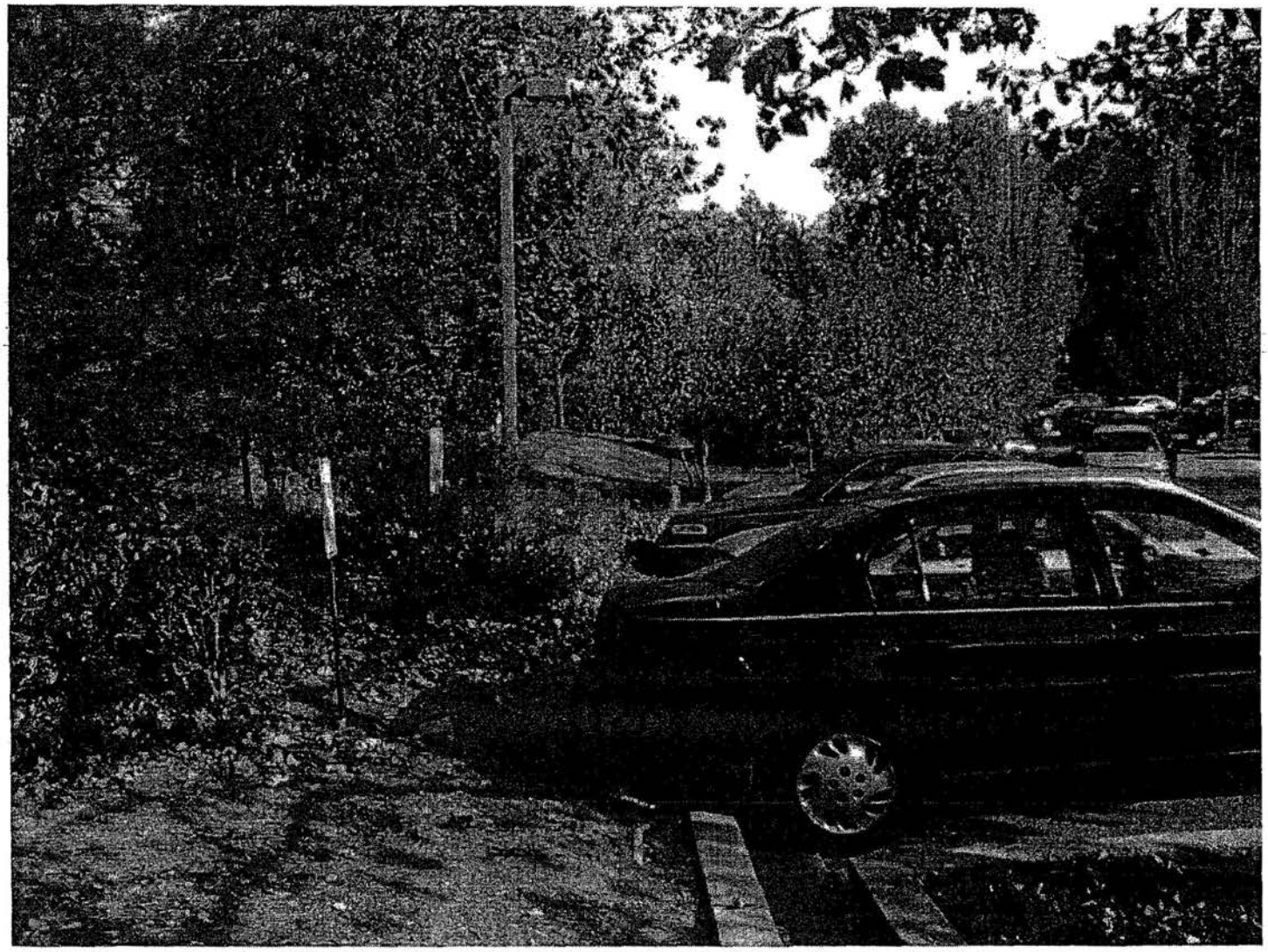
20 May 2002

aba
ARCHITECTS

Amos Bailey Arnold
+Associates, Inc.

BZA
Case No. 16836
Exhibit No. 58

Board of Zoning Adjustment
District of Columbia
CASE NO.16836
EXHIBIT NO.58

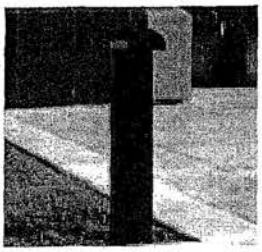




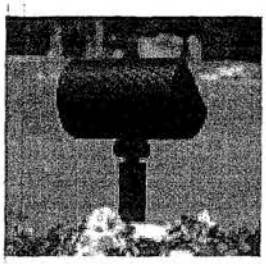
l Archetype®



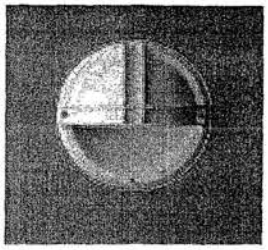
LTV Lightvault®



SL Site Lightform



AFL Architectural Floodlight



WF Wall Form®



SW Site Wa

KIM THEORY OF RELATIVITY

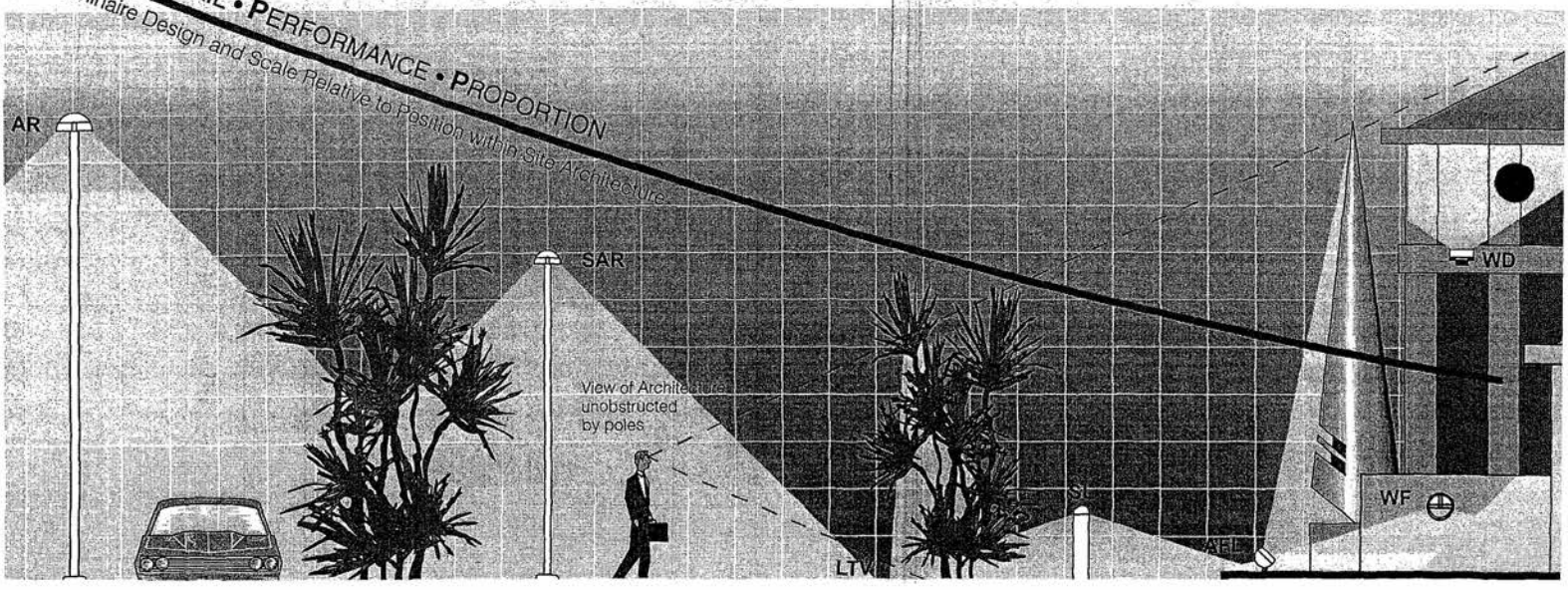
At Kim, product is developed in context, as it relates to Detail, Performance and Proportion. **Detail** to connect fixture appearance to the site and architectural elements. **Performance** to provide high visibility while using energy efficiently. **Proportion** to reflect the proximity to structures as well as site occupants. As illustrated below, each zone leading to a structure presents a *unique set of criteria.* The **Site / Roadway Zone** requires large scale sources, mounted high and spaced widely, to provide uniform illumination. **Pedestrian Zone** luminaires are more visible, mounted lower and provide higher illumination levels to draw

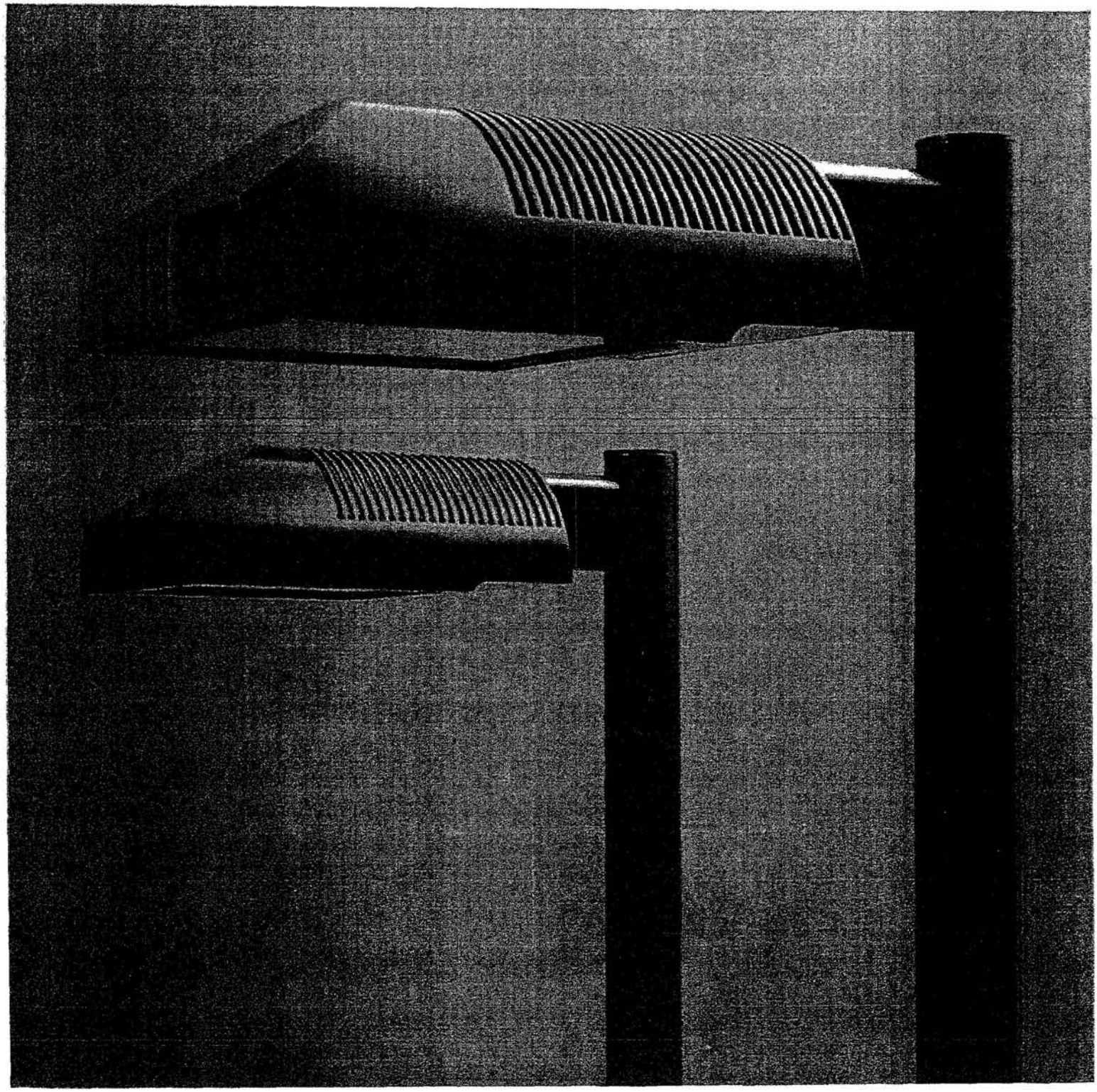
atten[redacted]and
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connecting t
Perimeter Z
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drawing atter
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effect. Integra
Kim Theory c

$= DP^2$

KIM = DETAIL • PERFORMANCE • PROPORTION

Luminaire Design and Scale Relative to Position within Site Architecture



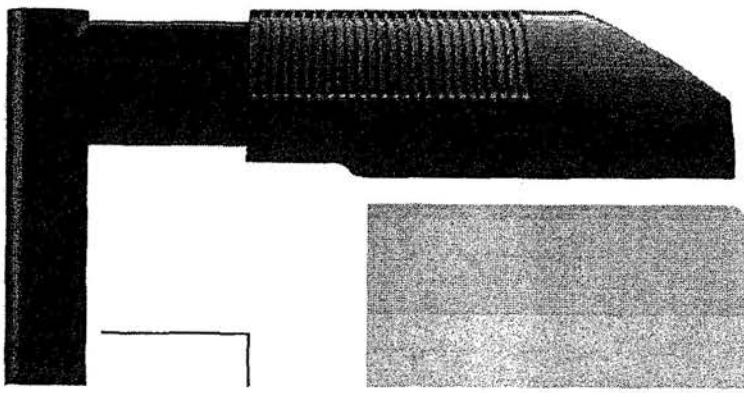


Design Logic

Architectural Relevance

Architecture controls the design of an architectural luminaire. Today's architecture is eclectic, combining square, round and neoclassic shapes into a single structure. The Archetype is designed to reflect eclectic form and outwardly express function. This variety and purpose has been beautifully sculptured into a unified luminaire design that makes a strong statement of both aesthetics and engineering.

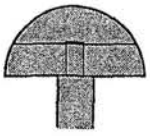
The Archetype's slanted nose, undercut ballast compartment and oval arm combine to balance its directional nature and form.



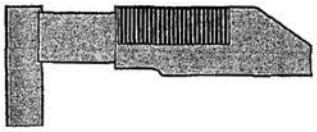
Round poles provide the optimum complementary shape to the Archetype.

The Archetype's directional form is further influenced by its optics. A downward and outward light throw is expressed by corresponding fixture shape.

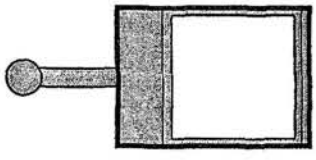
The Archetype's eclectic form is evident in these three views. From the side, its function is clearly stated. The bottom view is rectilinear while the section is a simple half cylinder. All elements combine to create a unified sculptural form that will integrate with virtually any architectural environment.



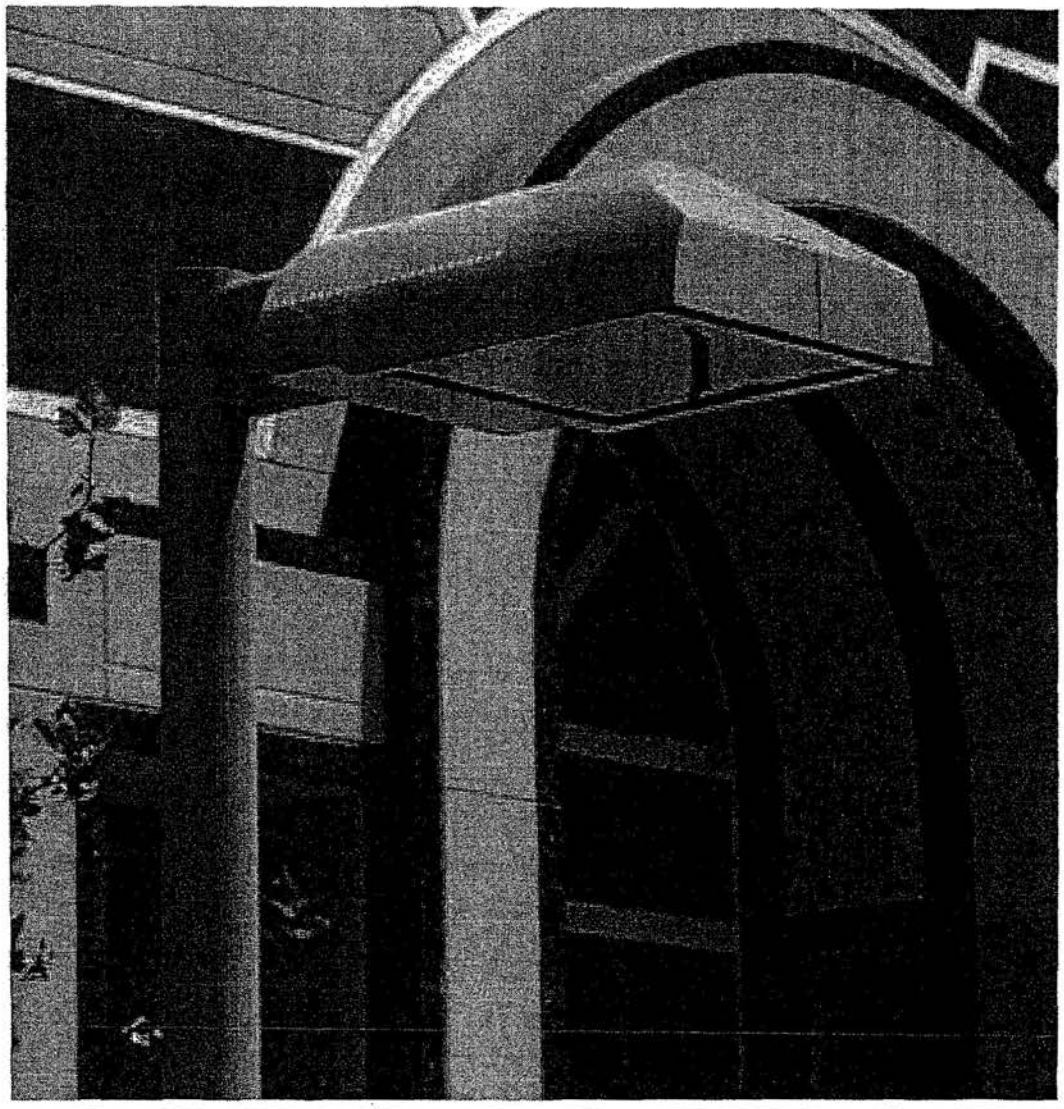
Front View



Side View



Bottom View



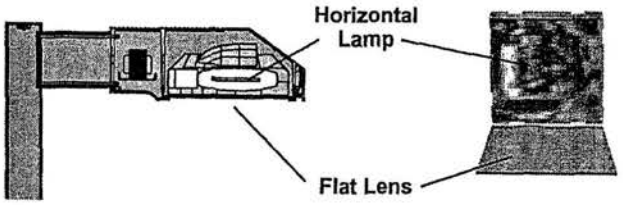
Horizontal Lamp

See the **Kim Site / Roadway Optical Systems Catalog** for complete details and explanation of optical system features.

Horizontal Lamp

Available in **Type II, Type III, Type IV,** and **Type V Square** distributions. This flat lens system provides **maximum cutoff control** and very good uniformity.

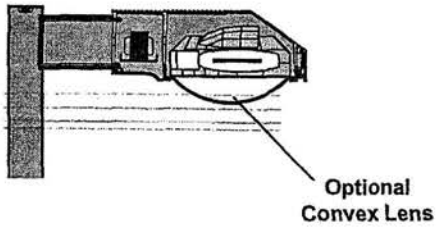
Sealed optics and performance reflector technology allow this horizontal lamp optical system to maximize lamp output. An optional houseside shield is available for Types II, III, and IV distributions.





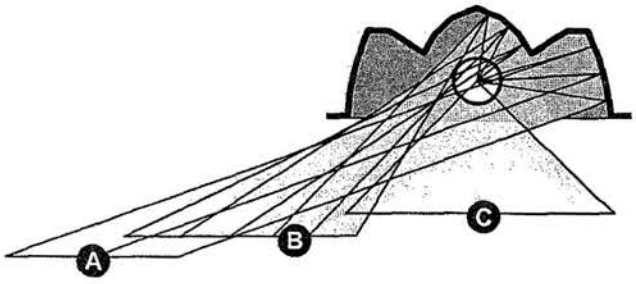
Type II Type III Type IV Type V

An optional convex lens offers increased lens presence, a subtle improvement in uniformity, and increased effectiveness of houseside shielding.



Sharp Cutoff

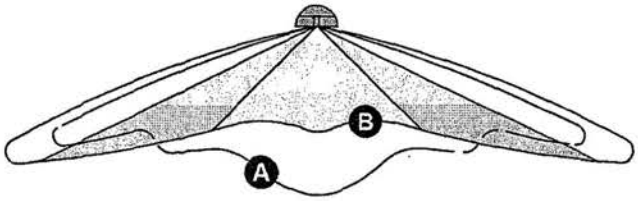
The Archetype utilizes a horizontal lamp orientation with a flat glass lens to produce sharp cutoff with zero light above 90° horizontal. In addition, the reflector system has been carefully engineered to provide maximum pole spacing with outstanding visual uniformity. The primary reflector panels are 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.

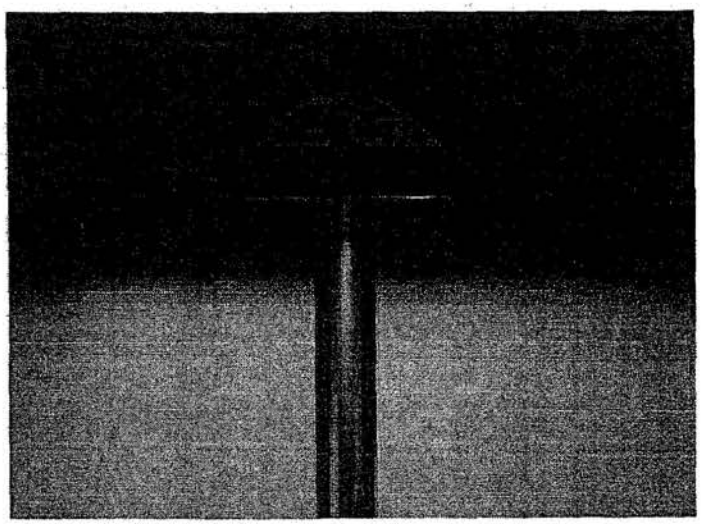
B. A specular peened upper reflector spreads light into the mid-range, gradually increasing the intensity toward higher angles while avoiding any low-angle reflections.

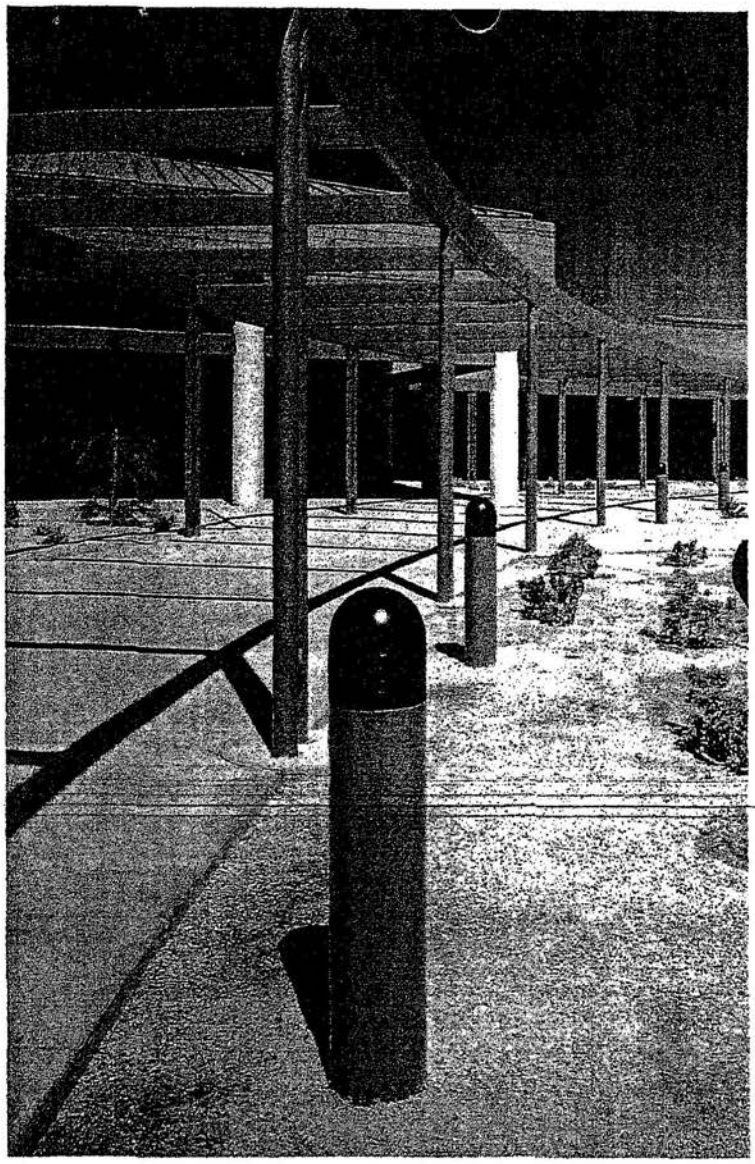
C. At low angles, bare lamp illumination is more than adequate. The elimination of downward reflecting surfaces greatly increases uniformity.

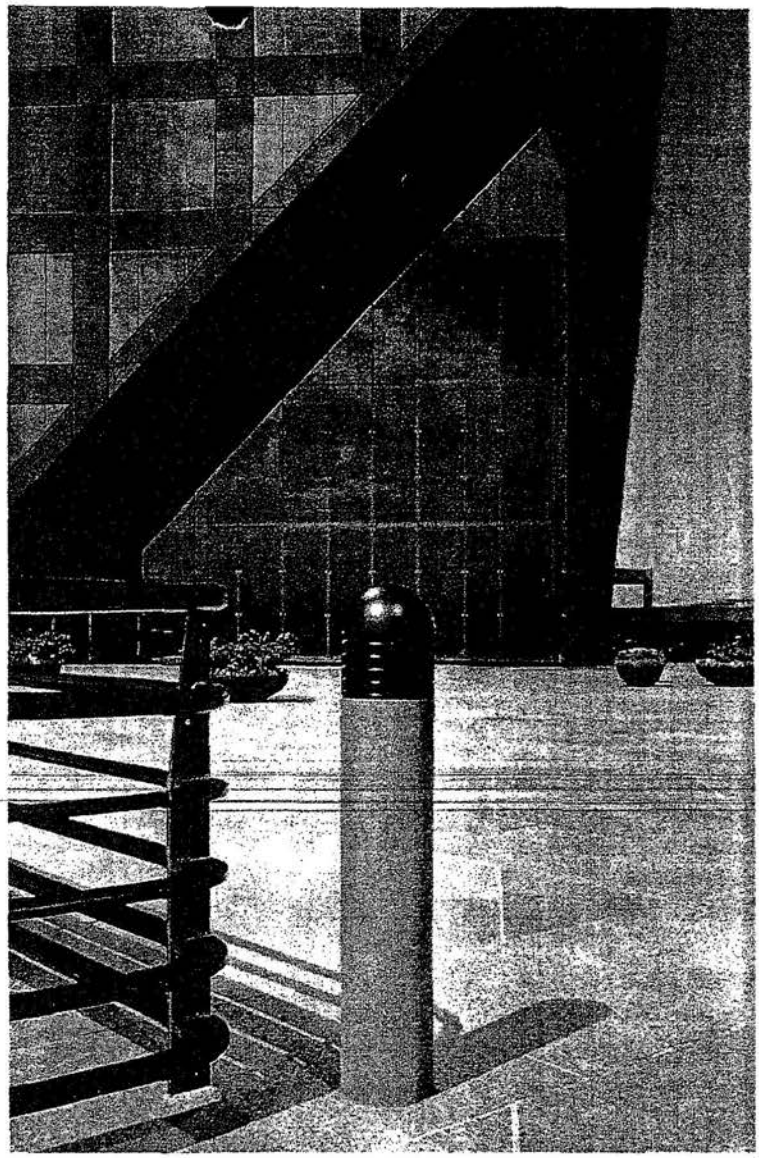


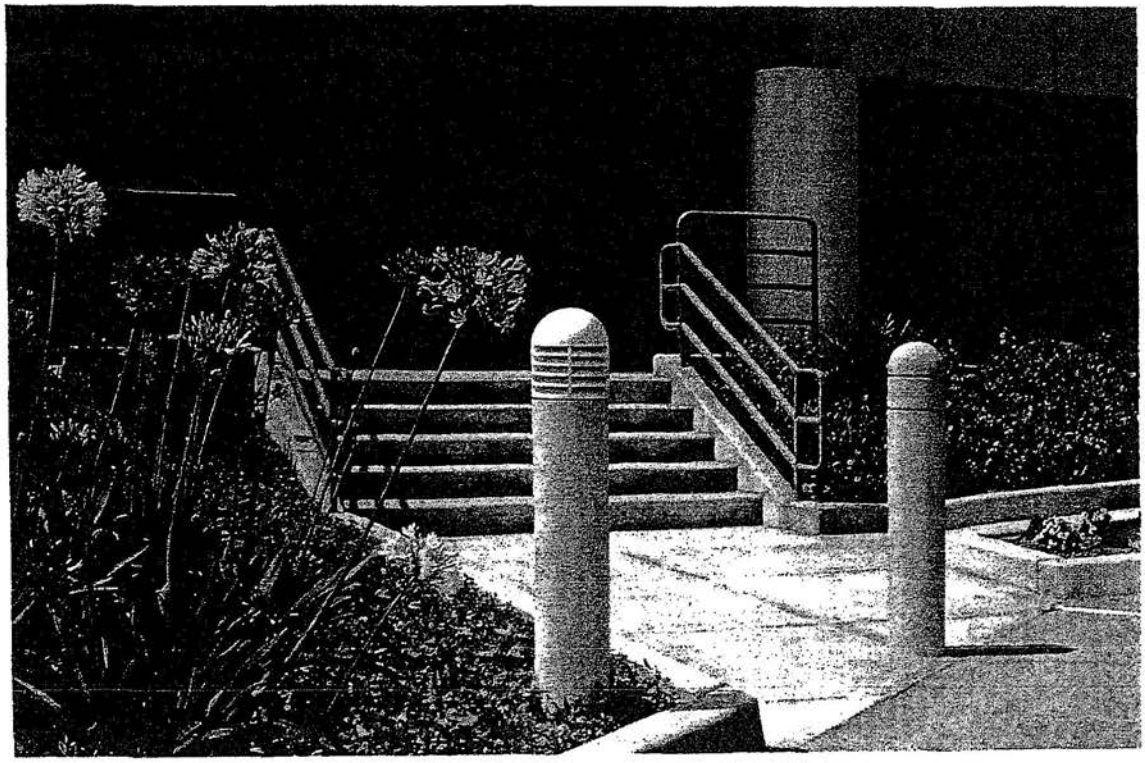
A. Typical horizontal lamp luminaires produce excessive straight-down illumination in relation to the side throw. This causes poor uniformity.

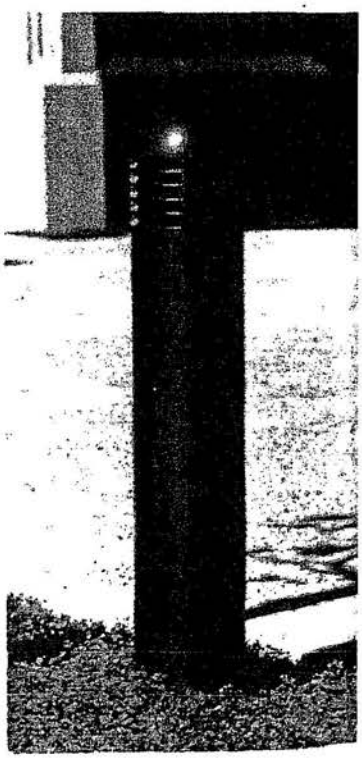
B. The Archetype reflectors have reduced straight-down illumination with increased side throw. This produces excellent pole spacing and uniformity.







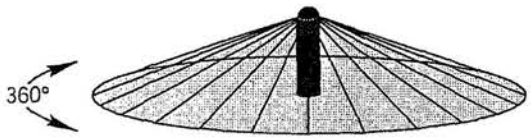




Performance and Strength

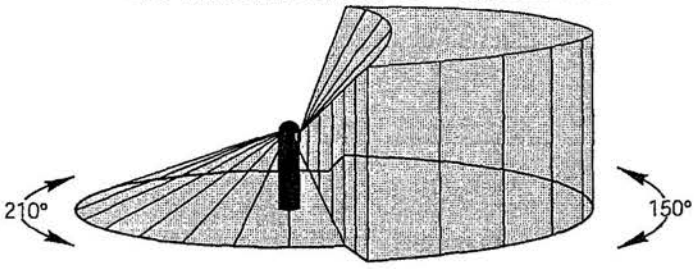
VRB1 Single Function Luminaire

360° Horizontal Louvers



VRB2 Dual Function Luminaire

210° Horizontal Louvers, 150° Vertical Louvers



65°Louver Angle

Compact glass lamp enclosure allows deep horizontal louvers with a high angle for greater light throw. Closed vertical spacing eliminates direct viewing of the light source above horizontal, ensuring glare-free, efficient illumination.

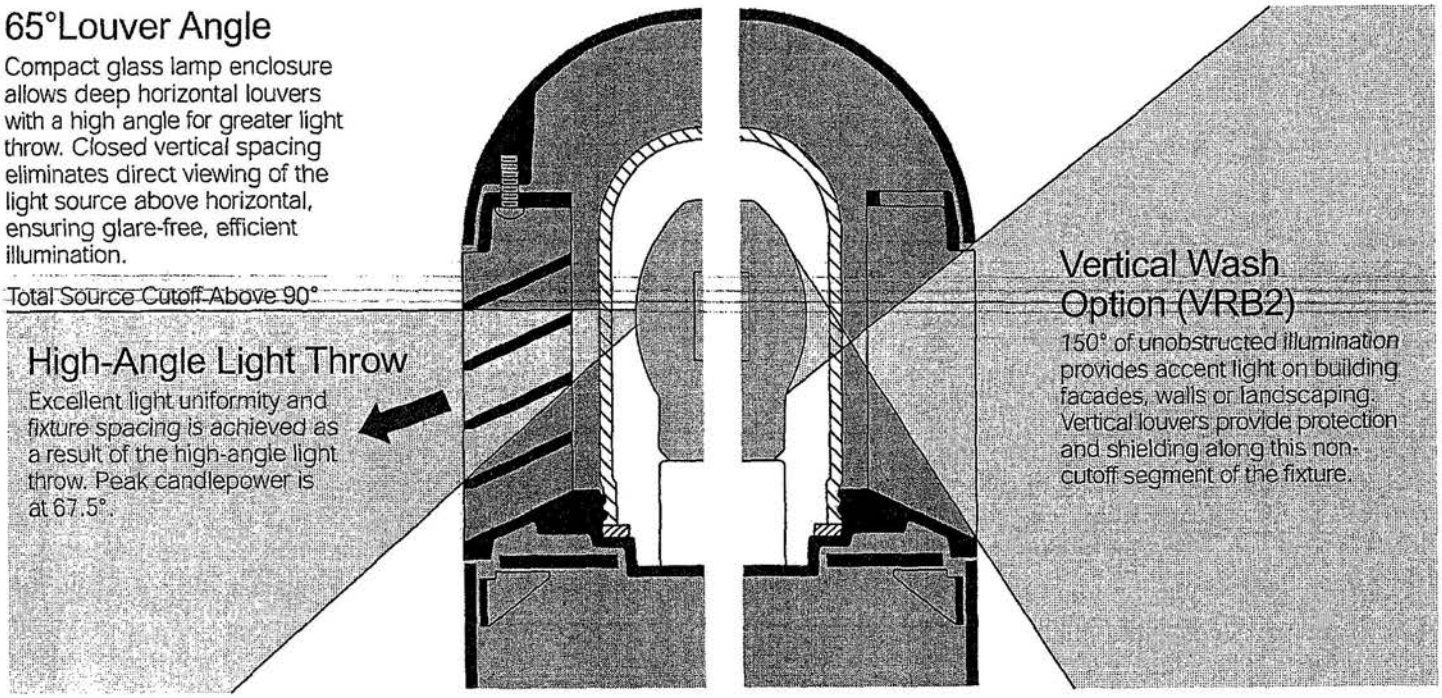
Total Source Cutoff Above 90°

High-Angle Light Throw

Excellent light uniformity and fixture spacing is achieved as a result of the high-angle light throw. Peak candlepower is at 67.5°.

Vertical Wash Option (VRB2)

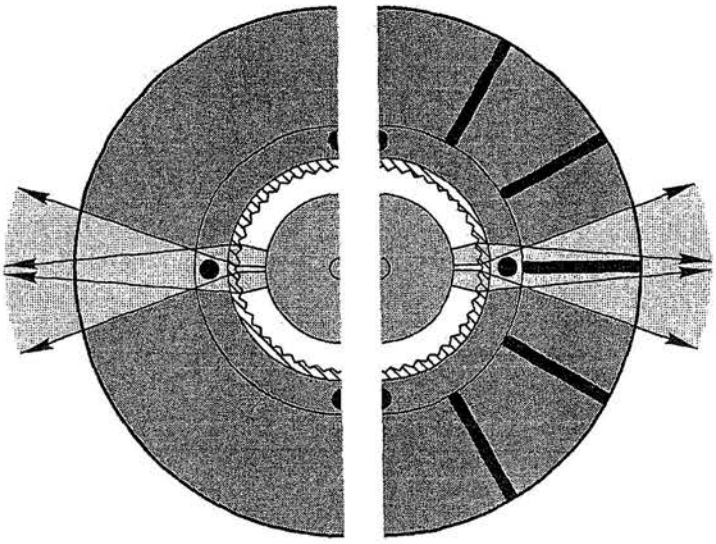
150° of unobstructed illumination provides accent light on building facades, walls or landscaping. Vertical louvers provide protection and shielding along this non-cutoff segment of the fixture.



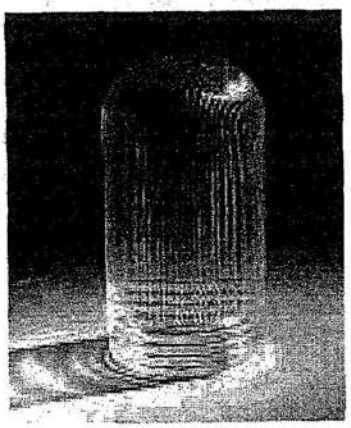
Vertical Section

Shadowless Lighting

Internal flutes in the glass lamp enclosure eliminate shadows by refracting light around structural supports and vertical louvers. Phosphor coated lamps are recommended, and VRB2 models should be located at least 10' from the vertical surface for best results.



Horizontal Section at Light Center

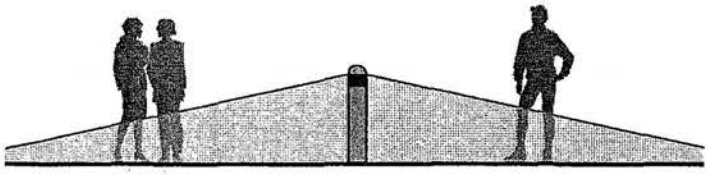


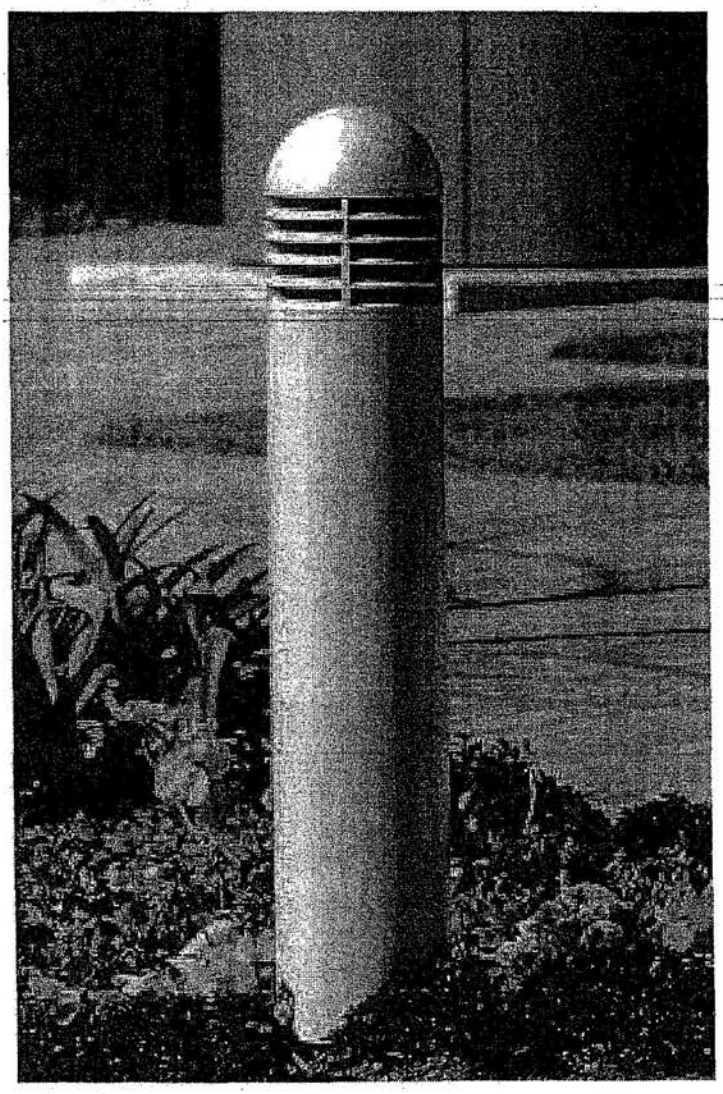
Internally fluted, tempered and gasketed glass lamp enclosure.

Single Functio

Luminaire

VRB1 Horizontal louvers provide 360° of down-lighting with total lamp source cutoff above 90° horizontal. Designed for lighting walkways, entrances, courtyards, and landscaped areas where fixtures are viewable from all directions. See page **2**.

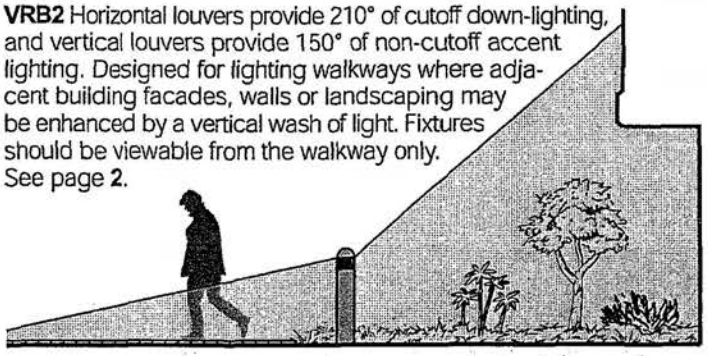


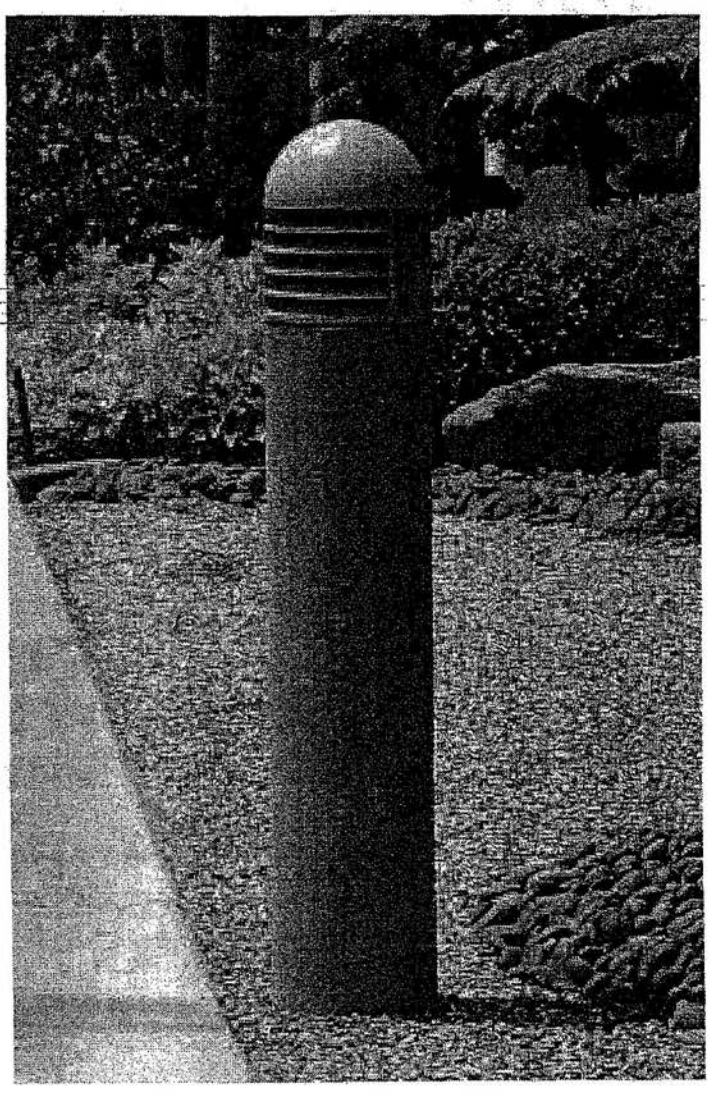


Dual Fu ction

Luminaire

VRB2 Horizontal louvers provide 210° of cutoff down-lighting, and vertical louvers provide 150° of non-cutoff accent lighting. Designed for lighting walkways where adjacent building facades, walls or landscaping may be enhanced by a vertical wash of light. Fixtures should be viewable from the walkway only. See page **2**.





KIM LIGHTING

SITE / AREA
PARKING STRUCTURE
ROADWAY
ARCHITECTURAL FLOOD / ACCENT
LANDSCAPE

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