



SITE/ROADWAY

BNS
SERIES

Bounce[®]

Pedestrian Scale Luminaire

70 - 200W H.I.D.



KIM LIGHTING

Bounce®

Table of Contents

Relativity	2-3
Horizontal or Vertical Lamp	4
Design Features	5
Ordering Information	6
Luminaire Specifications	8
Option Specifications	9
Proportion Guide	11
Lamp and Electrical Guide	12
Application Engineering Services	13

Bounce®

The Bounce® luminaire design combines the look of contemporary European lanterns with the cutoff control and optical performance provided in every Kim area lighting product. Rather than waste light by discharging it in lateral planes, the Bounce luminaire utilizes either Vertical or Horizontal lamp optical systems with cutoff lighting control. A subtle indirect component is captured from light bouncing off the reflective white ballast compartment cover, to illuminate the underside of the fixture's hood. Bounce addresses the growing concern for control of glare and light trespass, with a unique visual presence both day and night.



SITE / AREA
PARKING STRUCTURE
ROADWAY
ARCHITECTURAL FLOOD
ACCENT
LANDSCAPE

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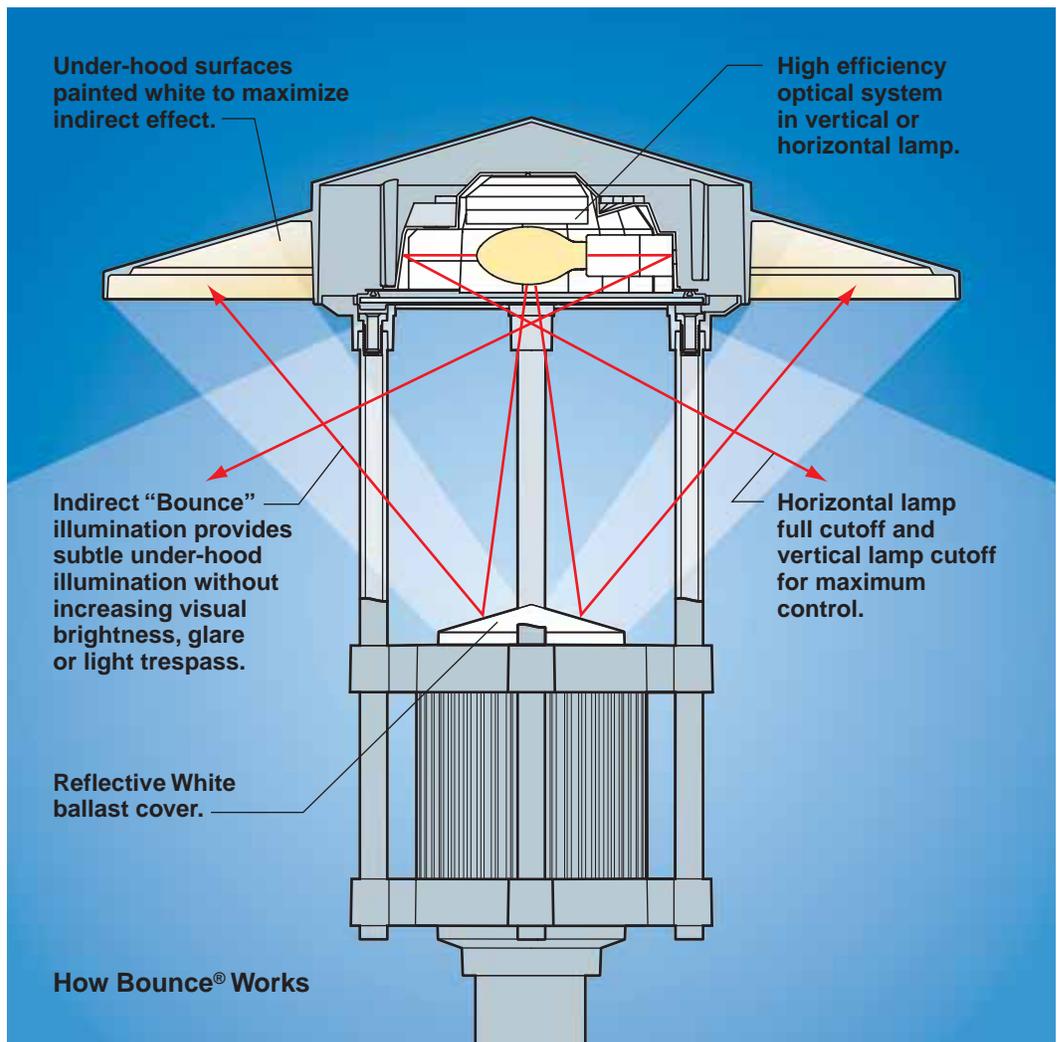
ENTIRE CONTENTS
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Lighting, Inc.

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Kim Theory of Relativity

The Relationship of Outdoor Lighting to Site and Architecture



ACA AC Arm Mount



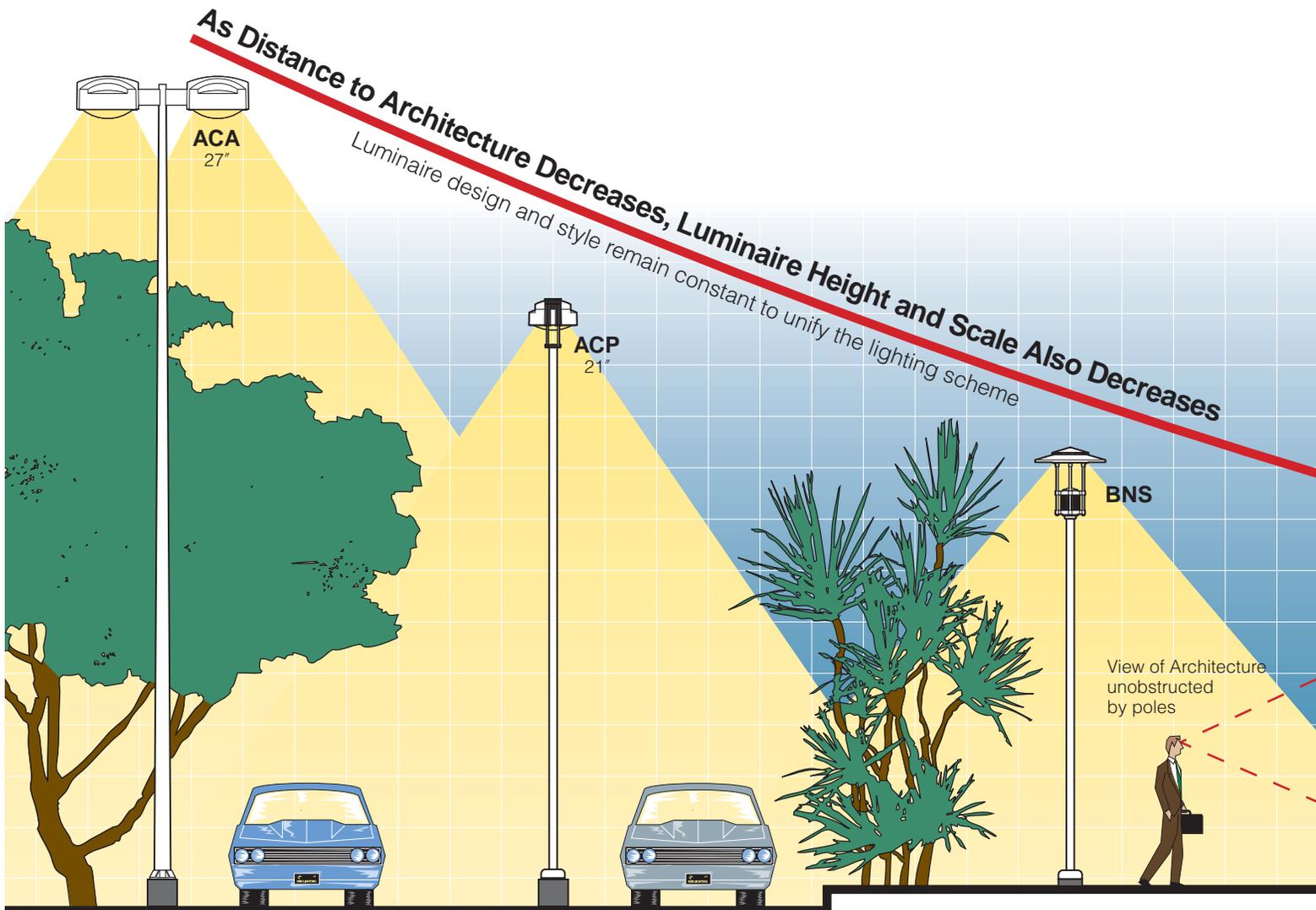
BNS Bounce®



LTV Lightvault®



GEM™ Bollard



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



WF Wall Forms®



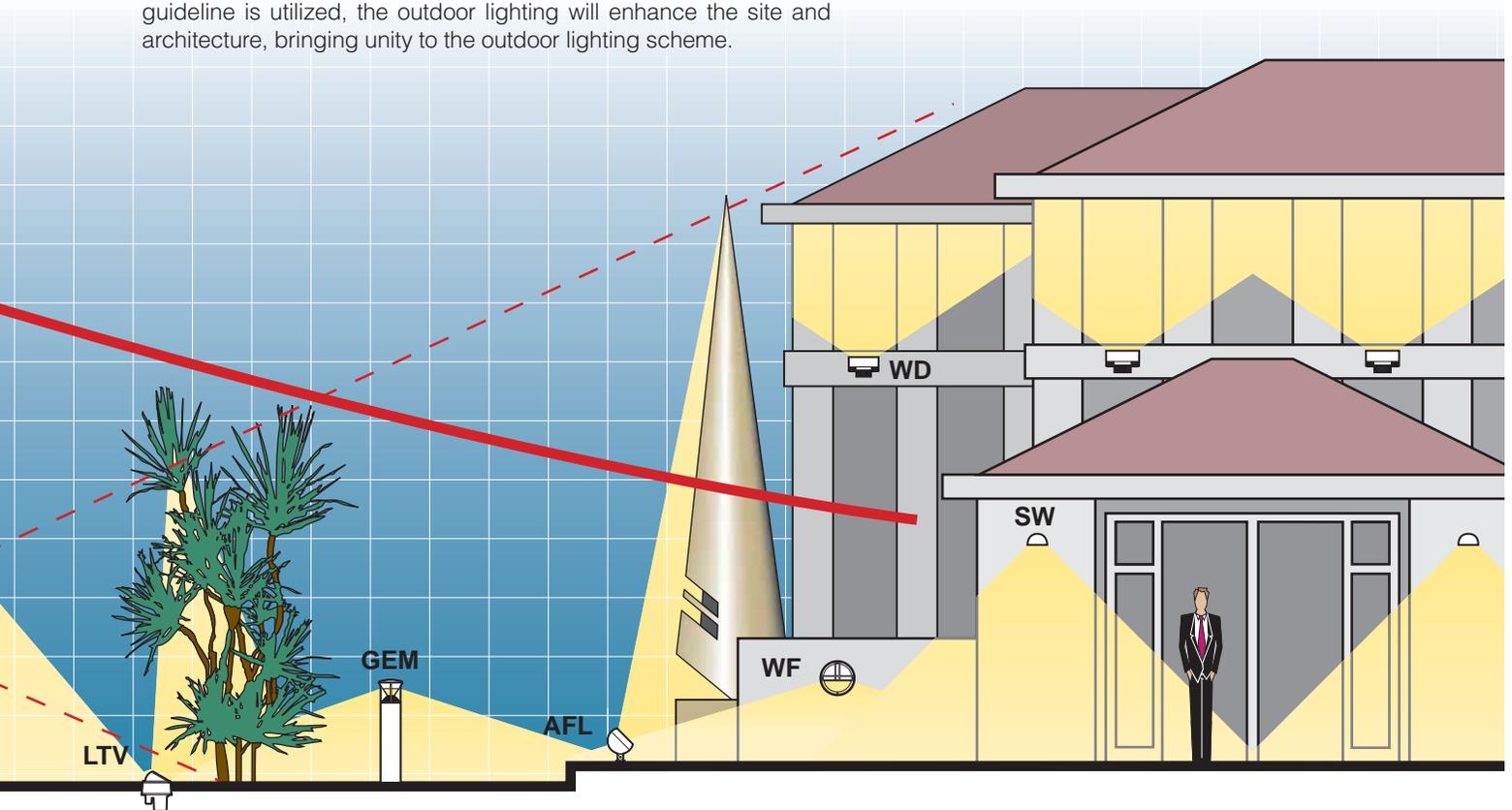
SW Site Wallforms



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.

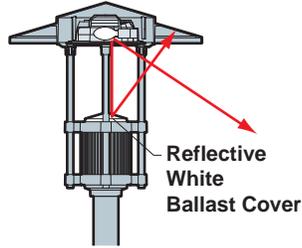
Horizontal or Vertical Lamp

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

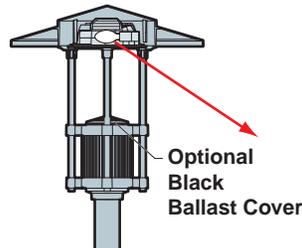
Cutoff and Bounce Optical Design

Unlike lantern style products that emit the majority of their light in the horizontal plane, the Kim Bounce design incorporates a Cutoff optical system for distribution of illumination onto the ground, combined with a controlled up-light feature to provide a subtle and unique night-time presence. For locations where Full Cutoff optical control is required, an optional black ballast cover, combined with either dark bronze or black fixture finish, and the Horizontal Lamp flat lens optical system, meet the stringent standard of no illumination at 90° from the vertical optical plane.

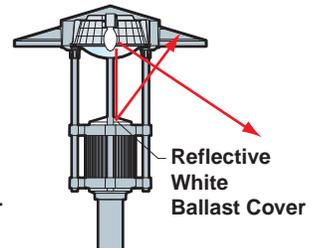
Horizontal Lamp with indirect light



Horizontal Lamp with Full Cutoff option



Vertical Lamp with indirect light



Horizontal Lamp

Available in **Type II, Type III, Type IV, and Type V** Square distributions, providing **maximum cutoff control** and very good uniformity.

Die-Cast Reflector Construction

Bounce utilizes die-cast aluminum optical chambers to provide a rigid foundation for the high efficiency reflector components. This produces the most durable, accurate, and highly repeatable optical system possible. The optical chamber is painted reflective white to increase efficiency and reduce lamp source apparent brightness.

Convex Lens Option

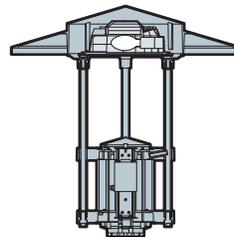
An optional Convex Lens produces a subtle improvement in uniformity where fixtures are spaced widely apart. This option will also increase fixture presence and improves houseside shielding effectiveness. Maintains Cutoff classification.

Cutoff Control

The horizontal lamp optical system, combined with tight control of the subtle up-light into the fixture hood, maintains its classification as "Cutoff", producing low glare and control of light trespass.

Full Cutoff Option

For locations where Full Cutoff optical control is mandated, an optional black ballast cover can be specified. This eliminates all indirect up-light distribution, producing a Full Cutoff luminaire, when used in conjunction with a dark bronze or black luminaire finish, and the standard flat lens.



Type II



Type III



Type IV



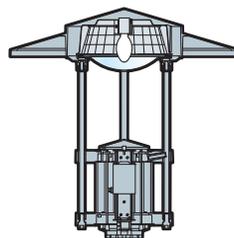
Type V

Vertical Lamp

Available in **Asymmetric** and **Symmetric** distributions, providing vertical lamp performance in a compact luminaire profile with excellent uniformity. **Symmetric** downlight distribution (BNS1F3 and BNS1F5) produces a soft glow and maximum fixture presence.

Cutoff Control

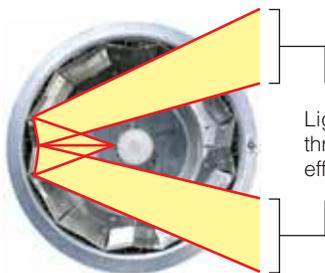
The vertical lamp optical system, combined with tight control of the subtle up-light into the fixture hood, maintains its classification as "Cutoff", producing low glare and control of light trespass.



Asymmetric



Symmetric Square



Light is directed around, not through the lamp for maximum efficiency.

Reflected Energy Directed Around the Lamp

Wide-beam vertical lamp reflectors often redirect heat and light back through the lamp, reducing efficiency. The Kim Split Beam optical design re-directs energy around the lamp into the desired useable lighting zones. The result is a cooler running lamp and higher luminaire efficiency.

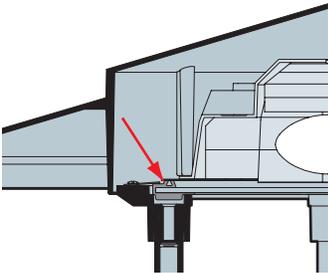
Precision Components

The hood and ballast chamber cover are die-cast aluminum for precision and repeatability. The ballast housing and support rods are extruded aluminum. Use of low-copper aluminum alloys (<0.6% Cu) provides trouble-free service and corrosion resistance.



Sealed Optical Chamber

The optical chamber is completely sealed, including wire entries. The lens is sealed with a molded silicone gasket. By eliminating the intrusion of moisture, dust, and insects, efficiency and maximum light output is maintained between maintenance intervals.



No-Tool Relamping

The hood is secured with a latch, and is hinged for relamping. A self-locking stop arm retains the hood/lamp compartment in the open position for easy maintenance.



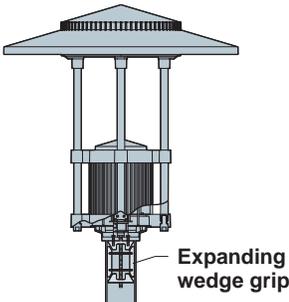
Easy Installation

The ballast module is factory prewired with a quick-disconnect plug, and mounted to a slide-in tray. Removal for maintenance or access to mounting fasteners is done without disturbing fixture wiring.



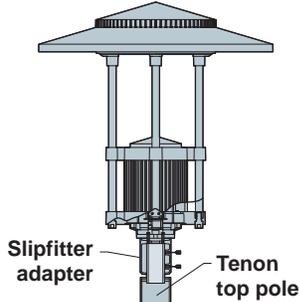
Post Top Mounting

The Bounce® post top mounting can be installed flush to square cut round poles. The **FM** Flush Mount for 4" round poles, produces the cleanest appearance with fully concealed fasteners, utilizing Kim's patented wedge grip. A single concealed bolt attaches the fixture.



Pole Top Tenon Mount

The Bounce® Pole Tenon Mount, for 2" pipe-size tenon (2 3/8" O.D. x 4 1/2" minimum length) provides flexibility for mounting to specialty poles (by others). **PT** Pole Tenon mount is held in place by four set screws. One set screw is drilled into tenon to prevent fixture rotation.



Twin Post Top Mounting

The Bounce® twin post top mount is installed onto 4" or 5" poles with extruded arms and risers with cast end caps. All fasteners and trim components are provided.



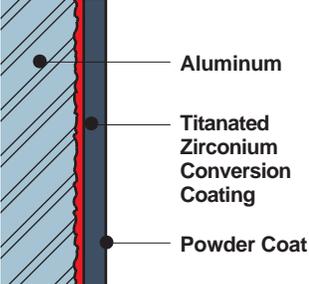
Wall Mount

The Bounce® wall mount installation includes a cast mounting plate, a cast cover plate, and an extruded arm and riser with cast end caps.



Eight Stage Durable Powder Coat Finish

Kim's state-of-the-art powder coat paint system is engineered to provide the highest quality finish with absolute paint adhesion under weather extremes. The Super TGIC thermoset polyester powder coat finish is applied over a Titanated Zirconium conversion coating. This finish system has exceeded the A.S.T.M. 2500 hour salt spray test.



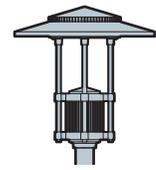
1. Power wash and degrease.
2. Detergent tank bath.
3. Clear water rinse bath.
4. Premium Titanated Zirconium conversion coating as used in the automobile industry.
5. Clear water rinse bath.
6. Dry off oven.
7. Powder coating, 2.5 mil nominal thickness.
8. Bake for 20 minutes at 410°F.

Standard Super TGIC Colors

- BL-P** Black
- DB-P** Dark Bronze
- LG-P** Light Gray
- PS-P** Platinum Silver
- WH-P** White

Ordering Information

BNS1



BNS1 Bounce

	Mounting	Fixture	Electrical Module	Finish	Options	Pole		
Ordering Example: For Standard Fixture and Pole	1	2	3	4	5-10 See p. 9	See Kim Pole Catalog (PRA, KRS for NS) Omit for 1W Wall Mount		
1 Mounting:	Flush Mount 4" O.D. Poles only EPA: 1.2 Cat. No.: FM	Tenon Mount For Poles with 2" Pipe-size Tenon EPA: 1.2 Cat. No.: PT	Twin Mount For 4" or 5" O.D. Poles only EPA: 3.6 Cat. No.: 2SB	Wall Mount EPA: n/a Cat. No.: 1W				
2 Fixture: Cat. No. designates BNS1 fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.	Horizontal Lamp Flat Glass Lens Light Distribution: Cat. No.:		Type II BNS1H2	Type III BNS1H3	Type IV Forward Throw BNS1H4	Type V Square BNS1H5 		
	Vertical Lamp Convex Glass Lens Light Distribution: Cat. No.:		Asymmetric BNS1F3	Symmetric Square BNS1F5 				
3 Electrical Module: HPS = High Pressure Sodium MH = Metal Halide PMH = Pulse Start Metal Halide See lamp and electrical data on page 12 for ballast types and characteristics.		70HPS120 70HPS208 70HPS240 70HPS277 70HPS347 70HPS480²	100HPS120 100HPS208 100HPS240 100HPS277 100HPS347 100HPS480²	150HPS120 150HPS208 150HPS240 150HPS277 150HPS347 150HPS480²	175MH120 175MH208 175MH240 175MH277 175MH347 175MH480²	¹ Not for use in horizontal lamp reflectors. ² Check with local codes for use of medium base sockets with the 480 volt.		
	Lamp Watts 100	Lamp Type HPS	Line Volts 277	70PMH120 70PMH208 70PMH240 70PMH277 70PMH347 70PMH480²	100PMH120 100PMH208 100PMH240 100PMH277 100PMH347 100PMH480²	150PMH120 150PMH208 150PMH240 150PMH277 150PMH347 150PMH480²	175PMH120¹ 175PMH208¹ 175PMH240¹ 175PMH277¹ 175PMH347¹ 175PMH480^{1,2}	200PMH120¹ 200PMH208¹ 200PMH240¹ 200PMH277¹ 200PMH347^{1,2} 200PMH480^{1,2}
4 Finish: Super TGIC powder coat paint over Titanated Zirconium conversion coating.	Color: Cat. No.:	Black BL-P	Dark Bronze DB-P	Light Gray LG-P	Platinum Silver PS-P	White WH-P	Custom Colors CC-P Consult representative for custom colors.	
5 Optional Photocell:	Line Volts: Cat. No.:	120V A-30	208V A-31	240V A-32	277V A-33	347V A-35	480V A-34	
6 Optional Convex Glass Lens: For Horizontal Lamp Fixtures.	Cat. No.:	CGL	Tempered convex glass lens replaces standard flat lens. For horizontal lamp Type II, Type III, Type IV, and Type V distribution.				Convex Glass Lens	
7 Optional Convex Polycarbonate Lens:	Cat. No.:	CP	Clear convex Polycarbonate Lens replaces standard glass lens.				Convex Polycarbonate Lens	
8 Optional Houseside Shield:	Cat. No.:	HS	Not for use with Type V (horizontal lamp) or symmetric (vertical lamp) light distributions.				HS for flat lens	
	Cat. No.:	HSC	For use with all fixtures with convex glass or polycarbonate lenses. Not for use with Type V or symmetric light distributions.					HSC for convex lens
9 Optional Black Ballast Cover: For Full Cutoff Applications.	Cat. No.:	BBC	Replaces reflective white ballast cover with black ballast cover. For use in conjunction with black or dark bronze fixture finish and horizontal lamp optics utilizing a flat lens only. Eliminates under-hood illumination.					
10 Optional Fusing:	Line Volts: Cat. No.:	120V SF	208V DF	240V DF	277V SF	347V SF	480V DF	



Luminaire Specifications

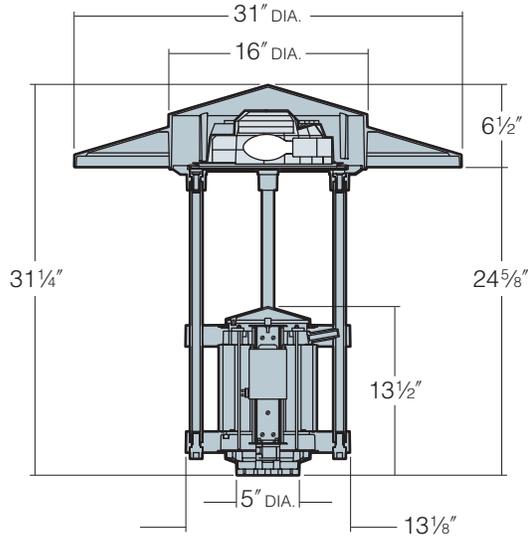
BNS1

Dimensions

Horizontal Lamp

70 to 175 watt

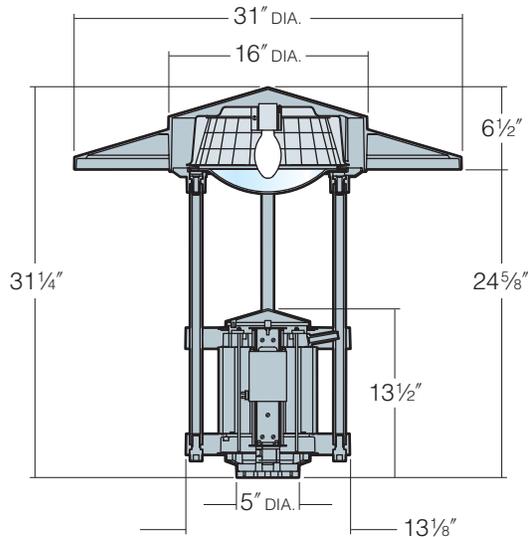
Medium Base Lamps



Vertical Lamp

70 to 200 watt

Medium Base Lamps



Hood and Lens Frame: Die-cast, low copper (<0.6% Cu) aluminum hood and lens frame with stainless steel hinge. The hood is opened with a tool-less latch made of die-cast aluminum and stainless steel brackets. The hood is held open for relamping with a stainless steel wire self-locking stop arm. The $\frac{3}{16}$ " thick clear flat or convex tempered glass lens seals against the reflector flange by a one-piece molded silicone gasket, to produce a fully sealed optical chamber. The underside of the hood is always painted white.

Reflector Module: Specular Alzak® optical segments are rigidly mounted within an aluminum enclosure (die-cast for horizontal, spun for vertical) which attach to the hood as a one-piece module with four captive screws. The 4KV, medium base socket is factory prewired with a high temperature quick-disconnect plug. The wires pass through a silicone gasket to maintain sealed optical chamber integrity.

Ballast Chamber: Die-cast, low copper (<0.6% Cu) aluminum flanges compress a ribbed extruded aluminum chamber. The die-cast aluminum cover is held with two captive stainless steel screws and a retaining wire is provided to secure the cover during installation or servicing. The four heavy wall extruded support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with an aluminum bushing. The die-cast cover is always painted reflective white. (Optional Black Ballast Cover).

Electrical Module: All electrical components are UL and CSA recognized mounted on a single bracket and factory prewired to a main power disconnect plug. The power quick-disconnect plugs are glass-filled thermoplastic, self aligning, and rated for 10,000 matings. The male portion of the plug is mounted to the ballast bracket and the female portion is mounted to the bottom die-cast flange section. Wires are supplied to reach the pole hand hole. Power to the ballast disconnects when the bracket is pulled out. All ballasts are high power factor with starting temperatures of -40°F for HPS and -20°F for MH lamp modes.

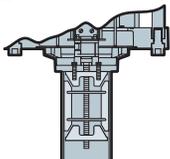
Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a Titanated Zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject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

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

Listings and Ratings

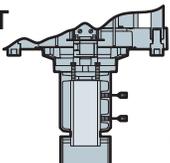
UL cUL 1598	25C Ambient
IP66 Rated	ISO 9001:2000

FM



4" O.D. extruded aluminum pole

PT



Pole with 2" pipe-size tenon (2 $\frac{3}{8}$ " O.D. x 4 $\frac{1}{2}$ " min. length)

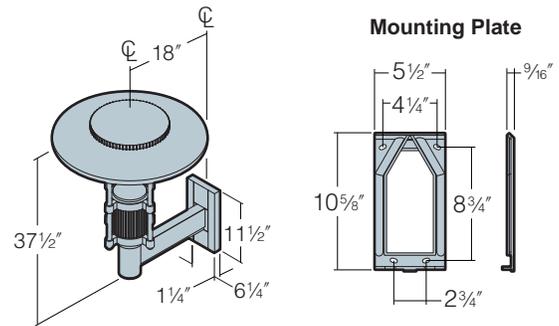
Pole Mounting

FM - Flush Mounting by means of an expansion device activated by a single bolt within the ballast compartment. Pole must have a plain-cut top. Standard pole size is 4" O.D. (Other pole adapter sizes available; contact Kim representative).

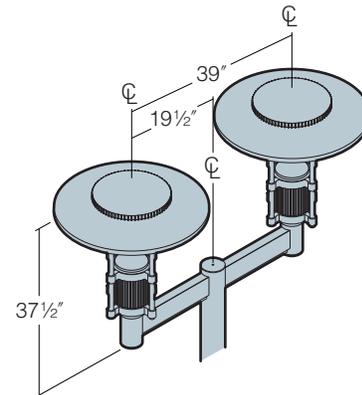
PT - Pole Tenon mounting by means of a cast aluminum adapter containing four recessed $\frac{3}{8}$ " stainless steel allen head set screws. Pole must have a 2" pipe-size tenon (2 $\frac{3}{8}$ " O.D. x 4 $\frac{1}{2}$ " minimum length). Pole tenon must be field drilled at one set screw location to secure against fixture rotation.

See page 6 for complete ordering information

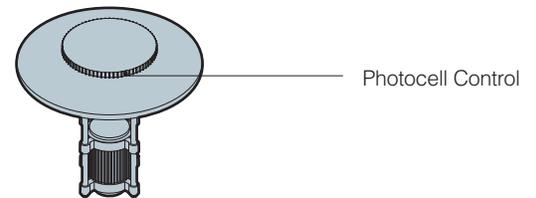
Wall Mounting: Extruded aluminum arm is factory assembled, with internal concealed draw bolts, to an extruded aluminum fixture support riser and a cast aluminum wall cover plate. A cast aluminum wall mounting plate pre-attaches to wall with bolts (by others). Fixture riser has a cast aluminum bottom cap. Wall cover plate has a removable cast aluminum cover for field splice access. Complete arm assembly can be mounted before field splices are made. All components are mechanically attached with no visible welds or fasteners. All wall components are finished to match fixture.



Twin Mounting: Two extruded aluminum arms are supplied with internal concealed draw bolts for attachment to Kim 4" and 5" O.D. poles with predrilled mounting holes. Arms are 180° apart, supplied with an internal pole reinforcing plate with wire strain relief and an extruded aluminum riser for mounting FM (Flush Mount) fixtures only. A cast aluminum pole cap and matching riser cap are included, and all components are mechanically fastened to eliminate welds and visible fasteners. All components are finished to match fixture.



Photocell: Factory installed fully gasketed sensor mounted in the hood.

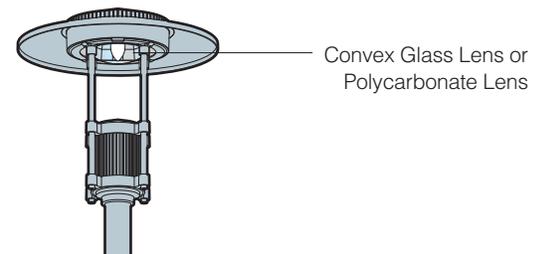


Convex Glass Lens: The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens in horizontal lamp fixtures. Provides increased lens presence and provides a subtle improvement in uniformity where pole spacing is extreme.

NOTE: Convex lens is standard on all Vertical Lamp Optical Systems.

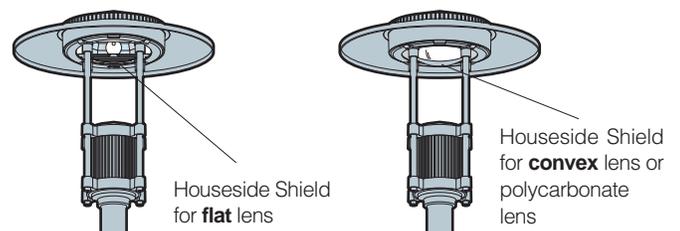
Polycarbonate Lens: One piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered flat or convex glass lens.

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



Houseside Shield: (Types II, III, IV - Asymmetric distributions only).

The cutoff horizontal reflectors 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. The vertical reflectors and horizontal reflectors with the optional convex lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a blackened panel added to the reflector to reduce houseside reflections.



Black Ballast Cover: (For Full Cutoff distributions). Replaces reflective white ballast cover with black ballast cover. For use in conjunction with black or dark bronze fixture finish and horizontal lamp optics utilizing a flat lens only. Eliminates indirect under-hood illumination and horizontal light distribution, to produce a full cutoff light distribution. For use with Black or Dark Bronze fixtures only.

Fusing: High temperature fuse holders factory installed. Fuse is included.





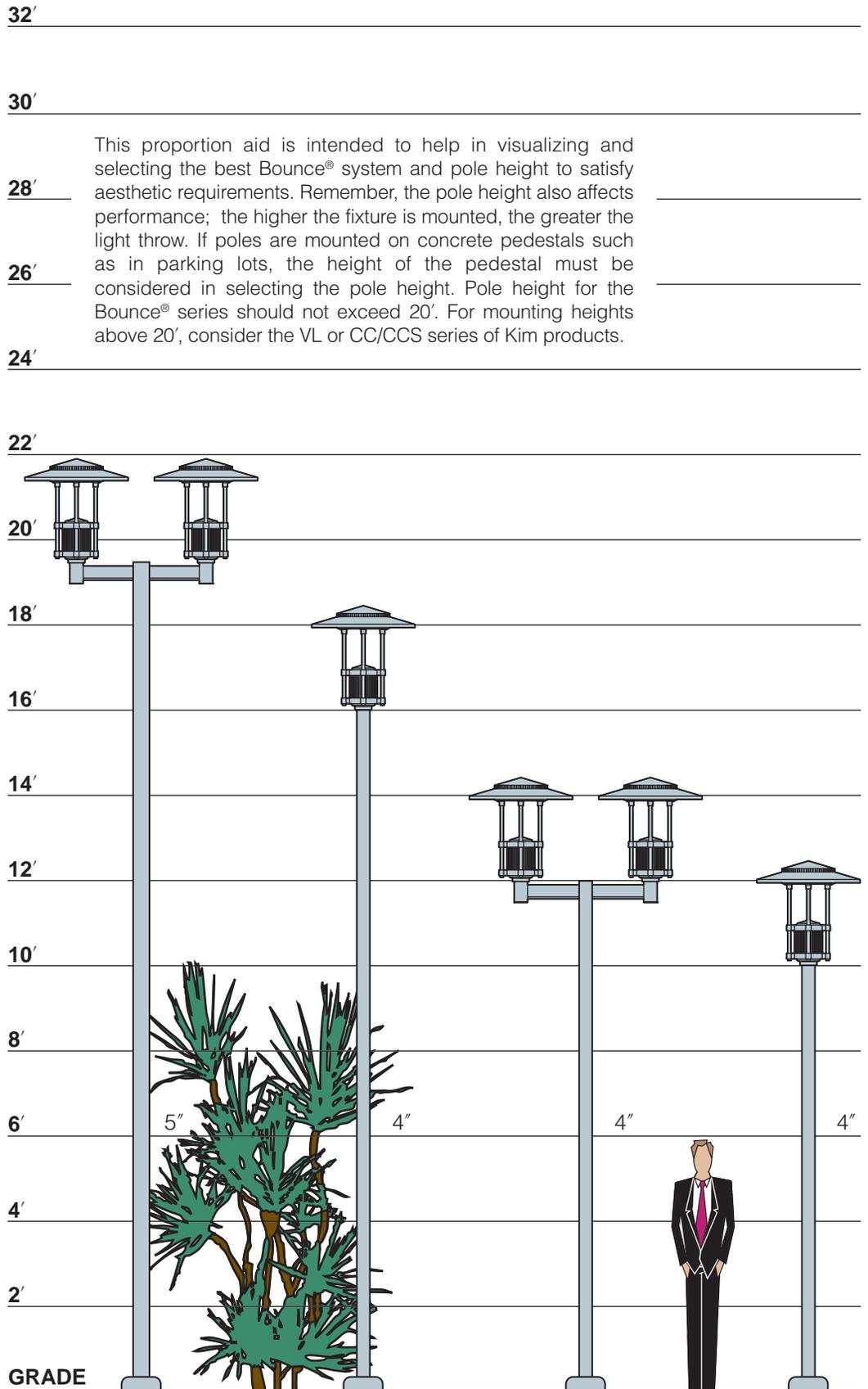
70 to 200 Watt / 10' to 20' Poles

The role of a Pedestrian Scale Luminaire

A true pedestrian scale luminaire like the Bounce® can satisfy many diverse requirements. Where pole mounting heights are restricted by local code and aesthetics, the Bounce® series is ideal. It is specifically designed for broad illumination at low mounting heights, in such locations as parks or along small streets, where mature trees would block the light if taller poles were used. The smaller scale of one or two story structures may dictate the use of a pedestrian scale luminaire so lighting equipment does not overpower the architecture. These are just a few instances where Bounce® provides an exceptional solution.

Mounting Height

As a pedestrian scale luminaire, Bounce® is most commonly mounted on 8' to 20' poles. Within this height range, the fixture, coupled with the standard 4" pole diameter, provides pleasing proportions. Wide throw light distributions also provide outstanding uniformity of illumination. This translates to maximum pole spacing, and the economy this brings in terms of initial cost and long term energy conservation.



Lamp and Electrical Guide

Lamp	Lamp Watts	ANSI Ballast Type	Life (Hours)	Initial Lumens ¹	Voltage	Operating Amps.	Open Circuit	Starting Amps.	Max. Amps.
HIGH PRESSURE SODIUM									
70HPS									
ED-17 Coated Medium Base	70	S-62	24000+	5860	120	0.81	1.45	0.75	1.45
					208	0.47	0.85	0.45	0.85
					240	0.40	0.75	0.37	0.75
					277	0.35	0.65	0.35	0.65
					347	0.30	0.55	0.30	0.55
					480 ³	0.21	0.36	0.21	0.36
100HPS									
ED-17 Coated Medium Base	100	S-54	24000+	8800	120	1.15	2.20	1.30	2.20
					208	0.67	1.25	0.75	1.25
					240	0.58	1.10	0.65	1.10
					277	0.50	0.85	0.60	0.85
					347	0.39	0.70	0.45	0.70
					480 ³	0.29	0.55	0.35	0.55
150HPS									
ED-17 Coated Medium Base	150	S-55	24000+	15000	120	1.65	2.80	2.00	2.80
					208	0.95	1.60	1.15	1.60
					240	0.83	1.40	1.00	1.40
					277	0.72	1.25	0.85	1.25
					347	0.56	0.92	0.52	0.92
					480 ³	0.42	0.70	0.50	0.70
METAL HALIDE									
175MH									
ED-17 Coated Medium Base	175	M-57	10000+	13300	120	1.80	1.80	1.30	1.80
					208	1.04	1.04	0.75	1.04
					240	0.90	0.90	0.65	0.90
					277	0.80	0.80	0.55	0.80
					347	0.65	0.70	0.50	0.70
					480 ³	0.45	0.45	0.35	0.45
PULSE START METAL HALIDE									
70PMH									
ED-17 Coated Medium Base	70	M-98	10000+	5700	120	0.80	1.90	0.55	1.90
					208	0.46	1.00	0.30	1.00
					240	0.40	0.90	0.25	0.90
					277	0.35	0.80	0.25	0.80
					347	0.28	0.65	0.20	0.65
					480 ³	0.23	0.50	0.26	0.50
100PMH									
ED-17 Coated Medium Base	100	M-90	12000+	8500	120	1.15	2.30	1.20	2.30
					208	0.66	1.40	0.80	1.40
					240	0.58	1.15	0.65	1.15
					277	0.50	1.00	0.60	1.00
					347	0.40	1.00	0.40	1.00
					480 ³	0.30	0.15	0.30	0.55
150PMH									
ED-17 Coated Medium Base	150	M-102	10000+	12000	120	1.60	3.65	1.75	3.65
					208	1.00	2.10	1.30	2.10
					240	0.80	1.80	0.85	1.80
					277	0.70	1.58	0.77	1.58
					347	0.55	1.25	0.65	1.25
					480 ³	0.42	0.81	0.45	0.81
175PMH²									
ED-17 Coated Medium Base	175	M-137	15000+	16600	120	1.80	1.80	0.95	1.80
					208	1.05	1.05	0.55	1.05
					240	0.90	0.90	0.45	0.90
					277	0.80	0.80	0.40	0.80
					347	0.63	0.60	0.32	0.63
					480 ³	0.46	0.44	0.13	0.46
200PMH²									
ED-17 Coated Medium Base	200	M-136	12000+	20000	120	2.00	2.00	0.75	2.00
					208	1.20	1.20	0.40	1.20
					240	1.00	1.00	0.35	1.00
					277	0.85	0.85	0.30	0.85
					347	0.70	0.65	0.25	0.70
					480 ³	0.50	0.50	0.18	0.50

¹ All initial lumen values and rated life shown may vary, due to operating orientation (vertical/horizontal), and from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

² Indicated lamps are for use in vertical lamp luminaires only. Data provided is extracted from Venture Uni-Form product information.

³ 480 volt with medium base lamp sockets may require approval by the local building code authority.

NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

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.



Applications Assistance

Kim Lighting utilizes the latest computer technology and software to provide specifiers with reliable evaluations of lighting system performance.

Kim can analyze a proposed luminaire layout or provide recommendations based on performance criteria.

Hard copies of plans can be sent directly to the Kim Applications Department via fax, express or regular mail. Any .dwg or .dxf file can be transmitted via modem or email (kim.apps@kimlighting.com), or placed on diskette, CD ROM or Zip disk, and forwarded to Kim Lighting c/o Kim Apps.

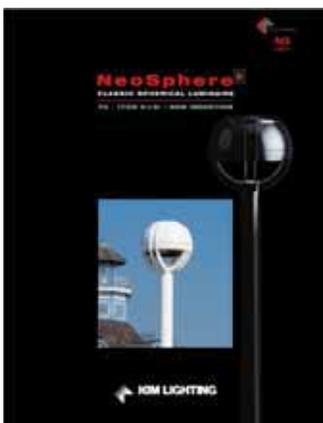


Photometric Files

Kim photometric files are available free in both electronic and hard copy format.

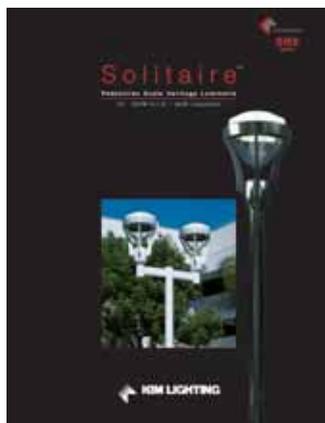
Electronic photometric files include .pdf file format pages for printing and .ies files for use in lighting calculation software. The complete .ies / .pdf library is available on CD ROM and on the internet at www.kimlighting.com.

Other Kim Pedestrian Zone Luminaires



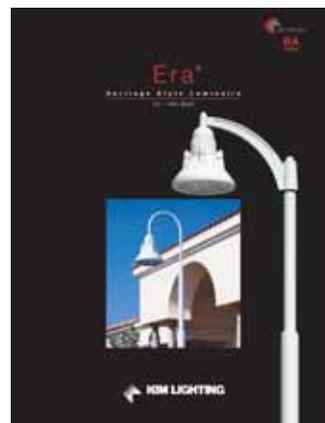
NeoSphere®

Spherical style with a full compliment of optical choices from cutoff to induction fluorescent.



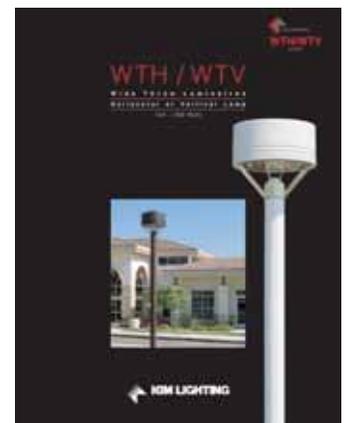
Solitaire™

Classic lantern style with modern optical design, from cutoff to induction fluorescent.



Era®

Heritage style with a wide range of mounting and optical choices.



WTH / WTV

Curvilinear style with reveal banding, provides simple and clean contemporary accent.

Bounce[®]

Pedestrian Scale Luminaire



Because of a continuing product improvement program, Kim Lighting reserves the right to change specifications without notice.

How may we serve you better?
Let us know by visiting our web site at:
www.kimlighting.com

Your input is valuable to us.



KIM LIGHTING

