CATALOG NUMBER LOGIC
(Add to Fixture Catalog Number)

EXAMPLE: HP2 - H35M - 277 - CPC

Housing:
- HP2

Ballast Type:
- H35M - 35W Magnetic
- H70M - 70W Magnetic
- H100M - 100W Magnetic
- H150M - 150W Magnetic
- H35E - 35W Electronic
- H70E - 70W Electronic
- H100E - 100W Electronic

Input Voltage:
- 120 / 277
- MT - Multi-Tap Electronic Metal Halide Ballast 120/208/240/277

Options:
- CPC - Concrete Pour Collar
  - (Material and Finish to Match Specified Fixture)
  - (May be Field Installed Prior to Permanent Installation of Side Entry Conduit Connectors)

Features:
- Precision Machined Aluminum Faceplate.
- Corrosion Free Composite Recessed Below Grade Housing.
- 360SL™ or 360HD™ (Patented) Adjustable Mounting System.
  - Allows Rotational Adjustment with O-Ring Seal and Tamperproof Design.
- 35W, 70W, 100W or 150W Magnetic High Power Factor, Metal Halide Ballast
  - (Standard) with Class H Insulation, 120V or 277V (Specify).
- 35W, 70W or 100W Multi-Tap Electronic Metal Halide Ballast 120V/208V/240V/277V.
- Junction Box with Hydro-Lock® Barrier Plate.
- Concrete Pour Collar Available in Aluminum or Brass.
- Large High Temperature Silicone Compression Type O-Ring with Five Stainless Steel Countersunk Hex Socket Captive Mounting Screws, Creates Water Tight Seal.
- Watertight Connectors, (3) Supplied with Fixture.

For Use With EV™, SE™, K2™, YO™ or SU™ Series Metal Halide Fixtures
LANDSCAPE FIXTURE

TYPE: FF1

Ground Mounted Landscape Fixture

MANUFACTURER:
Orgatech Omegalux

MODEL:
12-140BX-S-A-U-D-P-GS

LUMINAIRE DIMENSIONS: (LxWxH)
25.27 X 4.4" X 3.75"

LAMP:
40 Watt Compact Fluorescent, 4-pin BIAx

FINISH:
Bronze Powdercoat

SPECIFICATION:

HOUSING: Extruded aluminum body with cast end caps and slide-in polycarbonate, Lexan lens design, fully gasketed. Fixture shall have a cast swivel with 180° rotation. All hardware to be stainless steel.

SHIELDING: 3 sided glare shield.

REFLECTORS: Specular Alzak reflector with asymmetric wall wash distribution.

BALLAST: Electronic high power factor, with a starting temperature of -5°F.

FINISHES: To be fade resistant, electrically applied, thermally cured, satin polyester powdercoat finish, applied over a 5 stage pretreatment. Color to be bronze.

LABELS: UL wet label.
CONSTRUCTION:
Extruded Aluminum body, and cast endcaps, with slide-in Lens design. A bul- nose edge protects the gasket and polycarbonate lens from deformation. Unbreakable, wire-thru, cast swivel/s are permanently attached by four internal S/S screws. Swivels are toothed and rotate 180 degrees. 1/2’’ NPT KO’s on the endcaps allow other connection or wire through connections. Expansion space at each endcap prevents airflow across the lens and reflector, eliminating dirt migration for a permanently clean lens interior, and maximum maintained light output. All hardware is Stainless steel.

REFLECTORS:
High performance engineered designs match lamp characteristics, providing high performances for flood or wallwash distribution, from a narrow lens aperture. IES. Photometric files available. Special reflectors developed on request.

OPTICAL PERFORMANCE:
Linear floodlighting, providing 90 degree cutoff when used in the downward position to meet “Dark Sky” requirements. Narrow to very broad sideways distribution according to lamp and fixture lengths. Adjustable aiming is easily set with the toothed swivels.

LAMPS:
All Fluorescent lamps from 7 Watt compact to the most advanced linear T5, and triple tube styles upto 42W.

MOUNTING:
1/2’’ NPT removable Nipple on the swivels allows simple, and unlimited connection methods, for J boxes, - Permapost inground, - Extension arms, - Custom mounting plates.

ELECTRICAL:
Specify voltage, 120, 277V. or 347V Internal. Auto sensing or dedicated prewired ballasts supplied, according to lamp type, with 15” leads exiting one swivel. Optional Dimming ballasts add - (Dim). Emergency battery pack - add (E).

UL Listed for sprinkler locations, and mounting within 4ft of the ground.

FINISH:
Polyester powder coat applied over a 5 stage pretreatment. 5 Standard colors - Quick-ship colors are Bronze, Black, Green or Silver. Custom colors- optional at added cost.


WEIGHT: Consult list.

Specifications are correct at the time of publishing, but may be modified or improved in accordance with current electrical, safety or manufacturing methods without notification.
INSTALLATION ACCESSORIES

LOUVERS

GLARE SHIELD
(0.060 DIE FORMED ALUMINUM)

EXTERNAL LOUVERS
(0.060 ALUMINUM FRAME)

INTERNAL EGG CRATE LOUVERS

INTERNAL 3/8" BLADE LOUVERS

CUSTOM BRACKETS

Permaposts provide easy above-grade installation

Flat Hinged Mounting Foot - For mounting to ledges or windowsills, enabling relamping access from inside the building.

Typical installation for long fixtures


**Campus Roadway Fixture**

**Type:** PM1

**Manufacturer:** Architectural Area Lighting

**Model:** SL VT-H4/100MH/x/x/x/x

**Luminaire Dimensions:** (LxWxH)
25-1/2" x 25-1/2" x 20"

**Lamp:**
100 Watt Clear Ceramic Metal Halide, ED-17

**Finish:**
To Be Determined

**Pole Height / Diameter:**
15'-6" / 4"

**Specification:**

**Housing:** Diecast aluminum with internal reflector module sealed with a molded silicone gasket single piece diecast aluminum with rain and dust tight gasket seals on doorframe. Doorframe to be diecast aluminum with a stainless steel latch to provide tool-less entry into the lamp. Fixture shall slip over a 4” diameter pole and be secured and leveled by 3 stainless steel set screws.

**Shielding:** Heat and impact resistant glass lens with silicone gasket.

**Reflectors:** Specular and semi-specular faceted anodized aluminum panels rigidly attached in a diecast aluminum housing. Reflector shall be removable without tools and provide field rotation on 90° centers. Reflector shall provide cutoff optical control, type 4 distribution.

**Ballast:** Housing to be diecast aluminum with tool-less access and quick disconnect plug. High power factor rated for -30°F start. Fixture to be a complete prewired assembly.

**Pole:** Shaft shall be seamless extruded, 0.226” 6061 T-6 aluminum and contain a reinforced hand hole measuring 2’ x 4” with a hand hole cover, gasketed and secured with two tamper proof, stainless steel screws. Ground lug shall be located on the same side as the cover. Pole shall be provided with hot dip galvanized steel anchor bolt, hex nuts and flat washers and bolt circle template.

**Pole Base:** Two piece cast aluminum #356 to fit over 4” diameter pole. Cover shall be attached with stainless steel hardware.

**Finishes:** To be fade and abrasion resistant, electrostatically applied, thermally cured, TGIC textured polyester powdercoat finish. Color to be selected by University.

**Labels:** UL wet label.
<table>
<thead>
<tr>
<th>SLVT</th>
<th>SL VT-H2</th>
<th>100MH</th>
<th>ARM</th>
<th>BASE-POLE</th>
<th>COLOR</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tempered glass lens, type 2 horizontal cutoff reflector</td>
<td></td>
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<tr>
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<td></td>
<td>Tempered glass lens, type 5 horizontal cutoff reflector</td>
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</tbody>
</table>

**BALLAST**

- **70MH**
  - 70 watt metal halide multitap ballast 120/208/240/277 volt. Use medium base, clear ED-17 lamps.

- **70MHT6**
  - 70 watt metal halide dual voltage 120/277 volt. Uses a G12 base, clear T-6 ceramic MH lamp.

- **100MH**
  - 100 watt metal halide multitap ballast 120/208/240/277 volt. Use medium base, clear ED-17 lamps.

- **175MH**
  - 175 watt metal halide multitap ballast 120/208/240/277 volt. Use medium base, clear ED-17 lamps.

- **250MH**
  - 250 watt metal halide multitap ballast 120/208/240/277 volt. Use medium base, clear ED-17 lamps.

- **70HPS**
  - 70 watt high pressure sodium ballast 120/208/240/277 volt. Use medium base, clear ED-17 lamps.

- **100HPS**
  - 100 watt high pressure sodium ballast 120/208/240/277 volt. Use medium base, clear ED-17 lamps.

- **150HPS**
  - 150 watt high pressure sodium ballast 120/208/240/277 volt. Use medium base, clear ED-17 lamps.

- **250HPS**
  - 250 watt high pressure sodium ballast 120/208/240/277 volt. With modified reflectors only.

**COLOR**

- **WHT** white powder coat finish
- **BLK** black powder coat finish
- **DGN** dark green powder coat
- **DBZ** dark bronze powder coat
- **GALV** galvanized powder coat
- **VGR** verde green powder coat
- **CRT** corten powder coat finish
- **MAL** matte aluminum powder coat
- **RAL #**
- **CUSTOM**
- **OTHER**

**OPTIONS**

- **347** 120/277/347 volt ballast except 70MHT6
- **QRS** Quartz restripe controller reflector models only
- **QL** Socket for a T-4 mini-cand halogen lamp must be field wired to a separate 120 volt circuit
- **HSS** House side Shield for fixtures with a horizontal reflector

**WEIGHT: 32 LBS**

Height 20”/508mm x Width 25 1/2”/648mm

Slips over a 4” o.d. or 5” o.d. pole

**LARGENT™**

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714 994.2700 / fax 714 994.0522 / www.aal.net
Ref: SLVT.pdf copyright 2003, design patented
Specifications

HOUSING
The fixture fitter shall be one piece cast aluminum. The upper housing shall be spun aluminum. The top shall be removable to access the ballast. The top shall be secured with two captive, slotted screws. All hardware shall be stainless steel.

REFLECTOR MODULE
The reflector shall consist of specular and semi-specular die formed panels precisely positioned within the reflector housing. The reflectors shall meet IES-ANSI specifications for full cut off reflectors. The reflector module shall be accessible for relamping by loosening one captive fastener on the hinged, cast aluminum door frame. The door frame shall be sealed to the housing with a silicone compression gasket. A tempered glass lens shall be sealed to the door frame.

ELECTRICAL
Electrical components shall be mounted and wired to a mounting plate within the fixture. The ballast compartment shall be sealed with an aluminum cover. All electrical components and materials shall be U.L. recognized. Ballasts are high power factor rated for -30° starting. Medium base porcelain sockets are 4KV rated. T-6 lamps use a G12 base.

MOUNTING
Fixture slips over a 4” or 5” o.d. pole for post top mounting.

FINISH
Fixture finish shall consist of cleaning, etching, and rinsing followed by a protective chromate primer, deionized water rinse, oven dry off and top coated with a thermoset TGIC super polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION
Fixtures shall be listed with ETL for outdoor, wet location use, UL 1598 and Canadian CSA C22.2 no. 250. IP = 54

WARRANTY
Fixture shall be warranted to be free of defects for three years. Ballast components shall carry the ballast manufacturer’s limited warranty.
**Campus Walkway Fixture**

**Type:** PM2

**Pedestrian Cutoff Roadway Fixture**

**Manufacturer:**
Architectural Area Lighting

**Model:**
SL VT-H2/50MH/x/x/x/x

**Luminaire Dimensions:** (LxWxH)
25-1/2" x 25-1/2" x 20"

**Lamp:**
50 Watt Clear Ceramic Metal Halide, ED-17

**Finish:**
To Be Determined

**Pole Height:**
14'-0" / 4"

**Specifications:**

**Housing:**
Diecast aluminum with internal reflector module sealed with a molded silicone gasket single piece diecast aluminum with rain and dust tight gasket seals on doorframe. Doorframe to be diecast aluminum with a stainless steel latch to provide tool-less entry into the lamp. Fixture shall slip over a 4" diameter pole and be secured and leveled by 3 stainless steel set screws.

**Shielding:**
Heat and impact resistant glass lens with silicone gasket.

**Reflectors:**
Specular and semi-specular faceted anodized aluminum panels rigidly attached in a diecast aluminum housing. Reflector shall be removable without tools and provide field rotation on 90° centers. Reflector shall provide cutoff optical control, type 2 distribution.

**Ballast:**
Housing to be diecast aluminum with tool-less access and quick disconnect plug. High power factor rated for -30°F Start. Fixture to be a complete prewired assembly.

**Poles:**
Shaft shall be seamless extruded, 0.226" 6061 T-6 aluminum and contain a reinforced hand hole measuring 2' x 4" with a hand hole cover, gasketed and secured with two tamper proof, stainless steel screws. Ground lug shall be located on the same side as the cover. Pole shall be provided with hot dip galvanized steel anchor bolt, hex nuts and flat washers and bolt circle template.

**Pole Base:**
Two piece cast aluminum #356 to fit over 4" diameter pole. Cover shall be attached with stainless steel hardware.

**Finishes:**
To be fade and abrasion resistant, electrostatically applied, thermally cured, TGIC textured polyester powdercoat finish. Color to be selected by University.

**Labels:**
UL wet label.
**SL VT-H2**  Tempered glass lens, type 2 horizontal cutoff reflector

**SL VT-H3**  Tempered glass lens, type 3 horizontal cutoff reflector

**SL VT-H4**  Tempered glass lens, type 4 horizontal cutoff reflector

**SL VT-H5**  Tempered glass lens, type 5 horizontal cutoff reflector

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**WEIGHT:** 32 LBS  
**IP:**  54  
**EPA:** 2.15

Height 20”/508mm x Width 25 1/2”/648mm  
Slips over a 4” o.d. or 5” o.d. pole

### 1. Cat No.

<table>
<thead>
<tr>
<th>SL VT-H2</th>
<th>Tempered glass lens, type 2 horizontal cutoff reflector</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL VT-H3</td>
<td>Tempered glass lens, type 3 horizontal cutoff reflector</td>
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<tr>
<td>SL VT-H4</td>
<td>Tempered glass lens, type 4 horizontal cutoff reflector</td>
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<tr>
<td>SL VT-H5</td>
<td>Tempered glass lens, type 5 horizontal cutoff reflector</td>
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### 2. Ballast

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<thead>
<tr>
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<th><strong>SL VT-H3</strong></th>
<th><strong>SL VT-H4</strong></th>
<th><strong>SL VT-H5</strong></th>
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<tr>
<td>250HPS</td>
<td>250HPS</td>
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<td>250HPS</td>
</tr>
</tbody>
</table>

Specify Voltage.  
Lamps not included.

---

### 5. Color

- **WHT**  white powder coat finish
- **BLK**  black powder coat finish
- **DGN**  dark green powder coat
- **DBZ**  dark bronze powder coat
- **GALV** galvanized powder coat
- **VGR**  verde green powder coat
- **CRT**  corten powder coat finish
- **MAL**  matte aluminum powder coat
- **RAL #**  
- **CUSTOM**  
- **OTHER**  

### 6. Options

- **347**  120/277/347 volt ballast except 70MHT6
- **QRS**  Quartz restrike controller reflector models only
- **QL**  Socket for a T-4 mini-cand halogen lamp must be field wired to a separate 120 volt circuit
- **HSS**  House side Shield for fixtures with a horizontal reflector

---

**ARChitectural Ar ea Li ghti ng**  
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**The University Of New Mexico**  
**Albuquerque Campus**  
**Project No.** 22027  
**Type**  PM2

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**GRENALD WALDRON ASSOCIATES**  
ARCHITECTURAL LIGHTING CONSULTANTS  
PO BOX 525  
260 HAVENFORD AVENUE  
NARBERTH PA 19072 0525  
TEL 610 667 6330  
FAX 610 667 7658
Specifications

HOUSING
The fixture fitter shall be one piece cast aluminum. The upper housing shall be spun aluminum. The top shall be removable to access the ballast. The top shall be secured with two captive, slotted screws. All hardware shall be stainless steel.

REFLECTOR MODULE
The reflector shall consist of specular and semi-specular die formed panels precisely positioned within the reflector housing. The reflectors shall meet IES-ANSI specifications for full cut off reflectors. The reflector module shall be accessible for relamping by loosening one captive fastener on the hinged, cast aluminum door frame. The door frame shall be sealed to the housing with a silicone compression gasket. A tempered glass lens shall be sealed to the door frame.

ELECTRICAL
Electrical components shall be mounted and wired to a mounting plate within the fixture. The ballast compartment shall be sealed with an aluminum cover. All electrical components and materials shall be U.L. recognized.
Ballasts are high power factor rated for -30° starting. Medium base porcelain sockets are 4KV rated. T-6 lamps use a G12 base.

MOUNTING
Fixture slips over a 4” or 5” o.d. pole for post top mounting.

FINISH
Fixture finish shall consist of cleaning, etching, and rinsing followed by a protective chromate primer, deionized water rinse, oven dry off and top coated with a thermoset TGIC super polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION
Fixtures shall be listed with ETL for outdoor, wet location use, UL 1598 and Canadian CSA C22.2 no.250. IP = 54

WARRANTY
Fixture shall be warranted to be free of defects for three years. Ballast components shall carry the ballast manufacturer's limited warranty.
**Campus Park Walkway Fixture**

**Type:** PM3

**Pole Mounted Pedestrian Park Walkway Fixture**

**Manufacturer:**
Architectural Area Lighting

**Model:**
PROV-H2 70MHEB-TBD-DB

**Luminaire Dimensions:** (LxWxH)
18-7/10" x 18-7/10" x 31-1/2"

**Lamp:**
70 Watt Clear Ceramic Metal Halide, ED-17

**Finish:**
To Be Determined

**Pole Height / Diameter:**
14'-0" / 4" Dia.
PR4-4R14-226-BC5-4-TBD

**Specification:**

- **Housing:** Diecast aluminum with internal reflector module sealed with a molded silicone gasket. Single-piece diecast aluminum with rain and dust tight gasket seals on doorman. Doorframe to be diecast aluminum with stainless steel latch to provide tool-less entry into the lamp. Fixture shall slip over a 4" diameter pole and be secured and leveled by 3 stainless steel set screws.

- **Shielding:** Heat and impact resistant glass lens with silicone gasket.

- **Reflectors:** Specular and semi-specular faceted anodized aluminum panels rigidly attached in a diecast aluminum housing. Reflector shall be removable without tools and provide field rotation on 90° centers. Reflector shall provide full cutoff optical control, Type 2 distribution.

- **Ballast:** Housing to be diecast aluminum with tool-less access and quick disconnect plug. High power factor rated for -30°F start. Fixture to be a complete prewired assembly.

- **Pole:** Shaft shall be seamless extruded, 0.226" 6061 T-6 aluminum and contain a reinforced hand hole measuring 2' x 4" with a hand hole cover, gasketed and secured with 2 tamper proof, stainless steel screws. Ground lug shall be located on the same side as the cover. Pole shall be provided with hot dip galvanized steel anchor bolt, hex nuts, flat washers, and bolt circle template.

- **Pole Base:** Two piece cast aluminum #356 to fit over 4" diameter pole. Cover shall be attached with stainless steel hardware.

- **Finish:** To be fade and abrasion resistant, electrostatically applied, thermally cured, TGIC textured polyester powdercoat finish. Color to be selected.

- **Labels:** UL wet label.
• Die cast aluminum construction for corrosion resistance.
• Tool-less access and removal of the reflector, lamp and ballast.
• Type 2, 3, 4 and 5 full cutoff, horizontal reflectors.
• Type 3 and type 5 vertical lamp cutoff reflectors.
• Asymmetric and symmetric indirect, cutoff optical system.
• 70 to 175 watts HID including T-6 CDM lamps and electronic ballasts for metal halide lamps.
• Separate die cast aluminum ballast module for cooler operation and extended component life.
• Powder coat finish in ten standard colors with a polychrome primer.
• Slips over a 4 inch tenon for arm or pole mounting.
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<thead>
<tr>
<th>CATALOG NO.</th>
<th>FIXTURE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROV-H2</td>
<td>Type 2 horizontal reflector, flat tempered clear glass lens</td>
</tr>
<tr>
<td>PROV-H3</td>
<td>Type 3 horizontal reflector, flat tempered clear glass lens</td>
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<tr>
<td>PROV-H4</td>
<td>Type 4 horizontal reflector, flat tempered clear glass lens</td>
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<tr>
<td>PROV-H5</td>
<td>Type 5 horizontal reflector, flat tempered clear glass lens</td>
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<tr>
<td>PROV-V3</td>
<td>Type 3 vertical reflector, tempered clear sag glass lens</td>
</tr>
<tr>
<td>PROV-V5</td>
<td>Type 5 vertical reflector, tempered clear sag glass lens</td>
</tr>
<tr>
<td>PROV-INDA</td>
<td>Asymmetric indirect, indirect reflective optical system, metal halide ED-17 &amp; T6 lamps only</td>
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<tr>
<td>PROV-INDS</td>
<td>Symmetric indirect, indirect reflective optical system, metal halide ED-17 &amp; T6 lamps only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>LAMP / BALLAST</th>
</tr>
</thead>
<tbody>
<tr>
<td>70MH</td>
<td>70 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps</td>
</tr>
<tr>
<td>70MHEB</td>
<td>70 watt electronic metal halide ballast, 120 thru 277 volt. Use a medium base, clear ED-17 lamp</td>
</tr>
<tr>
<td>70MHT6</td>
<td>70 watt metal halide 120/277 volt ballast. Use a G12 base, clear T-6 ceramic lamp</td>
</tr>
<tr>
<td>70MHT6EB</td>
<td>70 watt electronic metal halide ballast, 120 thru 277 volt. Use a G12 base, clear T-6 ceramic lamp</td>
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<tr>
<td>100MH</td>
<td>100 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps</td>
</tr>
<tr>
<td>150MH</td>
<td>150 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps</td>
</tr>
<tr>
<td>150MHEB</td>
<td>150 watt electronic metal halide ballast, 120 or 277 volt. Use a medium base, clear ED-17 lamp</td>
</tr>
<tr>
<td>150MHT6</td>
<td>150 watt metal halide 120/208/240/277 volt ballast. Use a G12 base, T-6 ceramic MH lamp</td>
</tr>
<tr>
<td>150MHT6EB</td>
<td>150 watt electronic metal halide ballast, 120 or 277 volt. Use a G12 base, T-6 ceramic MH lamp</td>
</tr>
<tr>
<td>175MH</td>
<td>175 watt metal halide 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps</td>
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<tr>
<td>70HPS</td>
<td>70 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps</td>
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<td>100 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps</td>
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<tr>
<td>150HPS</td>
<td>150 watt high pressure sodium 120/208/240/277 volt ballast. Use a medium base, clear ED-17 lamps</td>
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</table>

All HID ballasts are multi-tap, prewired for 277 volts. Lamps not included.

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>COMPACT FLUORESCENT</th>
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</thead>
<tbody>
<tr>
<td>CF</td>
<td>Electronic transformer for 26, 32 or 42 watt compact fluorescent lamp. 120 through 277 volt. Horizontal reflector only.</td>
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</table>

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>COLOR</th>
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<td>Corten</td>
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<tr>
<td>DBZ</td>
<td>Dark Bronze</td>
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<td>ATG</td>
<td>Antique Green</td>
</tr>
<tr>
<td>MAL</td>
<td>Matte Aluminum</td>
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<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>COLOR</th>
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<tbody>
<tr>
<td>GAL</td>
<td>Galvanized</td>
</tr>
<tr>
<td>LGY</td>
<td>Light Grey</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>RAL / CUSTOM COLORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAL</td>
<td></td>
</tr>
</tbody>
</table>

RAL colors are identified by four digit numbers. RAL and custom color powder coat finishes are available. Please submit a color chip for custom colors.

ARCHITECTURAL AREA LIGHTING

www.aal.net

14249 Artesia Boulevard • La Mirada, CA 90638
tel (714) 994-2700 • fax (714) 994-0522

Providence is a registered trademark of AAL. Design patents pending. Copyright ©2003.
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SPK
DECORATIVE SPIKES
Cast aluminum spikes on the top and bottom of the four vertical struts.

HSS
HOUSE SIDE SHIELD
For horizontal and vertical reflector models.
House side shield to cut off light behind the pole and shield the lamp from view. HSS not available for Type V.
Factory installed.

LDL
LOW BRIGHTNESS LENS
Frosted, flat tempered glass lens has a lightly diffused finish to minimize the lamp and reflector brightness.
For horizontal reflector models.

QRS
RESTRIKE CONTROLLER
Quartz restrike controller and socket for a T-4 mini-cand halogen lamp, maximum 150 watt.
Not for use with electronic metal halide ballasts. For horizontal reflector only.

PFN
BRASS COLORED FINIAL
Cast aluminum finial painted a brass color.

EGRESS & EMERGENCY LIGHTING OPTIONS

Egress lighting codes require an illuminated path to allow occupants to get a safe distance from the building during a power failure or other emergency. In conjunction with the proper wiring, these two options can be implemented to provide egress lighting.

QL
HALOGEN LAMP CIRCUIT
Socket for a T-4 mini-cand halogen lamp, maximum 150 watt.
Must be field wired to a separate 120 volt circuit. For horizontal reflector only.

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GRENALD WALDRON ASSOCIATES
ARCHITECTURAL LIGHTING CONSULTANTS
PO BOX 525
260 HAVENFORD AVENUE
NARBERTH PA 19072 0525

THE UNIVERSITY OF NEW MEXICO ALBUQUERQUE CAMPUS

PROJECT NO. 22027
TYPE PM3
These one piece cast aluminum arms accept the standard four inch slip fitter on the Providence fixture. The arms are prewired with quick disconnects. Wall mounted arms do not include wall mounting hardware. Pole mounted arms use 3/8 - 16 hex head bolts for attaching to a round, straight 4 inch, 100mm diameter pole.
REFLECTOR MODELS - REFLECTOR/LAMP
The upper lamp housing shall be die cast aluminum. The internal reflector module is sealed from the outer housing with a molded silicone gasket. The tempered glass lens shall be sealed to the housing with a silicone gasket. One stainless steel latch shall release the door to allow access the lamp. The reflector module shall be composed of faceted, specular and semi specular anodized aluminum panels rigidly attached in a die cast aluminum housing. The reflector shall be removed without tools by lifting it out of the four spring loaded posts. The reflector tray shall be rotatable on 90° centers for orienting the light distribution. The horizontal and vertical lamp reflectors shall meet ANSI-IES standards for full cutoff reflector systems.

REFLECTOR MODELS - BALLAST
The lower ballast housing shall be die cast aluminum. The tool-less ballast access for servicing is accomplished by a quarter turn motion of the top cover. The ballast shall be mounted on a prewired tray with a quick disconnect plug. HID ballasts are high power factor, rated for -30°F starting. Electronic ballasts for metal halide lamps are sound rated A. Sockets are medium base for ED-17 lamps, G12 for use with T6 lamps. All sockets are pulse rated porcelain. Ballasts are multi-tap, wired at the factory for 277 volts. Compact fluorescent transformers shall accept 120 to 277 volt input and rated for 0°F starting.

INDIRECT MODELS - LOWER LAMP MODULE
The lower housing shall contain the lamp module. The cover shall be die cast aluminum with a tempered glass lens. The lamp shall be accessed by turning the lamp housing cover a quarter turn. The reflector shall be polished, anodized aluminum with an extremely narrow beam for directing the light to the upper reflector. Sockets are medium base for ED-17 lamps or G12 for use with T6 lamps. All sockets are pulse rated porcelain.

INDIRECT MODELS - UPPER REFLECTOR/BALLAST
The die cast aluminum upper housing shall contain the ballast assembly and the indirect reflector. The tool-less ballast access for servicing is accomplished single flip up latch and hinged top cover. The ballast shall be mounted on a prewired tray with a quick disconnect plug. The HID ballasts are high power factor, rated for -30°F starting. Ballasts are multi-tap, wired at the factory for 277 volts. The indirect reflector is mounted to the underside of the upper housing. The reflector shall be die cast aluminum, finished in a high reflectance white. The indirect reflector models shall be IES classified as cutoff with less than 1% lumen output above 90 degrees.

INSTALLATION & MOUNTING
The Providence series shall be factory supplied as a complete, prewired assembly. The fitter shall slip over a 4”/100mm open top pole or arm and be secured and leveled with three stainless steel set screws.

FINISH
Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION
The fixture shall be listed with ETL for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 no.250. IP=65. Made in the USA.

WARRANTY
Fixture shall be warranted for three years. Ballast components carry the ballast manufacturer’s limited warranty.
Poles - PR4
4" ROUND (RD) POLE

PR4
BASE / POLE/WALL / OPTIONS

CATALOG NO. MAXIMUM ALLOWABLE EPA (MPH)

<table>
<thead>
<tr>
<th>BASE POLE</th>
<th>OAH</th>
<th>SHAFT</th>
<th>WT</th>
<th>85</th>
<th>90</th>
<th>100</th>
<th>110</th>
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<tr>
<td>PR4 4R10-125</td>
<td>10&quot; (3.1m)</td>
<td>4&quot; RD x .125&quot;</td>
<td>25</td>
<td>19.4</td>
<td>17.1</td>
<td>13.5</td>
<td>10.8</td>
<td>8.9</td>
<td>7.4</td>
<td>6.3</td>
<td>5.5</td>
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<td>PR4 4R12-125</td>
<td>12&quot; (3.7m)</td>
<td>4&quot; RD x .125&quot;</td>
<td>28</td>
<td>15.3</td>
<td>13.4</td>
<td>10.5</td>
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<td>4&quot; RD x .125&quot;</td>
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<td>12.3</td>
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<td>4&quot; RD x .125&quot;</td>
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<td>10.0</td>
<td>8.6</td>
<td>6.4</td>
<td>4.8</td>
<td>3.6</td>
<td>2.9</td>
<td>2.4</td>
<td>2.0</td>
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<tr>
<td>PR4 4R10-226</td>
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<td>23.8</td>
<td>21.0</td>
<td>16.7</td>
<td>13.5</td>
<td>11.1</td>
<td>9.3</td>
<td>8.0</td>
<td>6.9</td>
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<tr>
<td>PR4 4R12-226</td>
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<td>4&quot; RD x .226&quot;</td>
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<td>7.2</td>
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<td>4.0</td>
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<tr>
<td>PR4 4R16-226</td>
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<td>3.3</td>
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<td>18&quot; (5.5m)</td>
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<td>2.9</td>
<td>2.4</td>
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<td>70</td>
<td>9.5</td>
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<td>3.1</td>
<td>2.4</td>
<td>1.9</td>
<td>1.6</td>
</tr>
</tbody>
</table>

Note: Overall height is measured to top of pole.

SPECIFICATIONS
Base shall be cast aluminum #356 alloy, free of any porosity, foreign materials, or cosmetic fillers.
Base casting shall be heat treated to a T-6 condition, and of uniform wall thickness, with no warping or mold shifting.

WARNINGS
Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.
AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure.
Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.
The use of banners or other appendages can severely affect the loading of a pole. No banner or other appendage should be attached to an AAL pole unless approved by AAL.
If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.

CAUTION
Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire. The warranty is voided if the pole is not grouted under the entire base after installation.
ANCHOR BOLTS shall be hot dip galvanized steel. Eight galvanized hex nuts and flat washers, and a bolt circle template shall be provided. Anchor bolt for poles are 3/4" x 24" x 3".

See options/accessories details on page 2.
Poles - PR4
4" ROUND (RD) POLE

OPTIONS / ACCESSORIES

☐ FH
Flag holder. (Specify location on pole)

☐ FS1
Single weatherproof fuse holder. Fuse by others.

☐ FS2
Single weatherproof fuse holder. Fuse by others.

☐ LR
Ladder rest. Slips over a 4" O.D. pole

☐ PCA-C
Rotatable photocell housing. The photocell can be aimed away from stray light sources for an accurate setting. The photocell is also shielded from light emissions from the fixture. The housing slips over a 4"/100mm o.d. pole, a fixture or arm slips over the 4"/100mm o.d. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens and stainless steel tether. Adds 4.5"/114mm to the overall height of the pole/fixture assembly. Prefit on the load side and line side for easy installation. Photocell by others.

☐ PCA-T
Rotatable photocell housing. The housing slips over a 4"/100mm o.d. pole, a fixture slips over the 4"/100mm o.d. tenon. Includes an internal twist lock receptacle, and an access cover with integral lens and stainless steel tether. Adds 5"/125mm to the overall height of the pole/fixture assembly. Prefit on the load side and line side for easy installation. Photocell by others.

☐ PCR
Low profile twist lock photocell receptacle with cast pole cap top. Secures to the top of the pole with three stainless steel set screws. Photocell by others.

☐ PLT
Plant Hanger. For 4" o.d. poles, (specify location on pole)

☐ RBC
Cast aluminum receptacle housing, integrally welded to the pole. Includes a NEC approved clear weatherproof cover. Does not include a receptacle or internal wiring.

☐ TEN
**BASE COVERS**

**CAST ALUMINUM**

**CATALOG NUMBER**

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>BC5-4</td>
<td>Fits over a 4&quot; (100mm) round pole. 14&quot; (100mm) diameter x 24&quot; (610mm) high. Two piece clamshell.</td>
</tr>
<tr>
<td>BC5-5</td>
<td>Fits over a 5&quot; (125mm) round pole. 15&quot; (125mm) diameter x 30&quot; (760mm) high. Two piece clamshell.</td>
</tr>
<tr>
<td>BC6-4</td>
<td>Fits over a 4&quot; (100mm) round pole. 13&quot; (330mm) high x 17&quot; (430mm) diameter. Two piece clamshell.</td>
</tr>
<tr>
<td>BC6-5</td>
<td>Fits over a 5&quot; (125mm) round pole. 15&quot; (125mm) diameter x 30&quot; (760mm) high. Two piece clamshell.</td>
</tr>
<tr>
<td>BC7-4</td>
<td>Fits over a 4&quot; (100mm) round pole. 18&quot; (460mm) diameter x 30&quot; (760mm) high. Two piece clamshell with a one piece upper collar.</td>
</tr>
<tr>
<td>BC7-5</td>
<td>Fits over a 5&quot; (125mm) round pole. 18&quot; (460mm) diameter x 30&quot; (760mm) high. Two piece clamshell with a one piece upper collar.</td>
</tr>
<tr>
<td>BC8-4</td>
<td>Fits over a 4&quot; (100mm) round pole. 12&quot; (305mm) diameter x 36&quot; (915mm) high. Two piece clamshell.</td>
</tr>
<tr>
<td>BC8-5</td>
<td>Fits over a 5&quot; (125mm) round pole. 18&quot; (460mm) diameter x 30&quot; (760mm) high. Two piece clamshell with a one piece upper collar.</td>
</tr>
<tr>
<td>ACBRD</td>
<td>Fits over a 4&quot; (100mm) round pole. 18&quot; (460mm) high x 14&quot; (356mm) diameter. One piece cover with a two piece upper collar.</td>
</tr>
<tr>
<td>ACBSQ</td>
<td>Fits over a 4&quot; (100mm) square pole. 14&quot; (356mm) square x 18&quot; (457mm) high. One piece cover with a two piece upper collar.</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Two piece base covers are cast #356 aluminum that fit over standard 4"/100mm or 5"/125mm round poles. Covers are attached with stainless steel hardware. Consult your AAL catalog for complete details on round poles.

**WARNINGS**

Caution must be exercised in the selection of a design wind speed when the pole is to be installed in a special wind region (as indicated by the wind map) or in an area where wind speed is unpredictable.

AAL recommends consulting a local engineer when the pole is to be installed in an area that may be subject to extreme weather and exposure. Poles installed on structures such as buildings and bridges may be subjected to vibration, oscillations, and other fatigue effects which are not covered by the AAL warranty.

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If the products are to be used on an existing foundation or on other structures, the customer assumes all responsibility for the structural integrity of the existing foundation, anchorage or structures and all the consequences arising therefrom.
ELEVATED WALKWAY FIXTURE

TYPE: PM4
CUTOFF BOLLARD ELEVATED WALKWAY FIXTURE

MANUFACTURER:
ERCO LIGHTING

MODEL:
33453.023

LUMINAIRE DIMENSIONS: (LxWxH)
7-13/16" X 4-1/2" X 35-7/16"

LAMP:
39 WATT CLEAR METAL HALIDE, T-6

FINISH:
GRAPHIT DOUBLE POWDER COAT

SPECIFICATION:

HOUSING: CORROSION RESISTANT, CAST ALUMINUM LUMINAIRE MODULE. LUMINAIRE SHALL HAVE SPREAD LENS WITH SAFETY GLASS. LUMINAIRE HOUSING SHALL BE REMOVABLE FROM BASE FOR RELAMPING. SCREWS TO BE CAPTIVE. BOLLARD SHALL BE 35 7/16" HIGH BY 7 13/16" WIDE BY 4 1/2" DEEP.

SHIELDING: HEAT AND IMPACT RESISTANT SAFETY GLASS LENS WITH SILICONE GASKET.

REFLECTORS: SPECULAR SILVER ANODIZED ALUMINUM WITH ASYMMETRIC DISTRIBUTION. LAMP SHALL BE SCREENED TO ENSURE NO DIRECT LIGHT EMISSION.

BALLAST: ELECTRONIC BALLAST, 120V, 60 HZ WITH 3 POLE TERMINAL BLOCK, HIGH POWER FACTOR RATED FOR -30°F START. FIXTURE TO BE A COMPLETE PREWIRED ASSEMBLY.

BASE PLATE: CAST ALUMINUM BASE PLATE FOR MOUNTING ON CONCRETE FOUNDATION.

FINISHES: TO BE FADE AND ABRASION RESISTANT, ELECTROSTATICALLY APPLIED, THERMALLY CURED, DOUBLE POWDER-COATED. COLOR TO BE GRAPHIT.

LABELS: UL WET LABEL, IP65.
Lightmark Bollard luminaire
Pathway lighting with single-sided light emission

33453.023 Graphit m
T6 39W G12 3400lm
ECO

Product description
Base plate for mounting on concrete plinth or ground socket: cast aluminum.
Electronic control gear 120V, 60Hz. 1 cable entry, 3-pole terminal block.
Asymmetric reflector lens system: aluminum, silver anodized, specular. Optimized lamp screening ensures no direct light emission.
Spread lens as safety glass.
Luminaire housing is removed from base for lamp replacement. Securing screws.
Suitable for wet location (IP65): dust-proof and water jet-proof.
Weight: 19.18 lbs / 8.70 kg
Surface exposed to the wind 1.94 ft² / 0.18 m²

Technical Region: 120V/60Hz
Edition: 04.03.2004
Please download latest version from www.erco.com/33453.023
Lightmark Bollard luminaire

Accessories

33975.023
Ground socket
Metal, hot-dip galvanized.
Diameter 3 1/4" / 83mm.
Length 19 3/4" / 502mm.
Weight 3.85lbs / 1.75kg.

33453.023
Lightmark Bollard luminaire

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THE UNIVERSITY OF NEW MEXICO ALBUQUERQUE CAMPUS

PROJECT NO. 22027
TYPE PM4