

Job:  
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Notes:

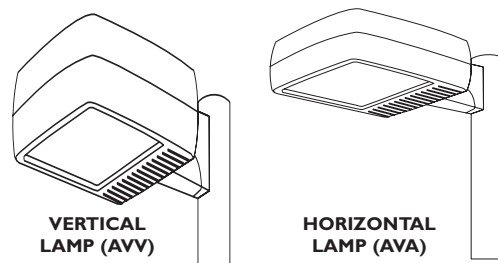
# Emco

# Avalume

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## Horizontal and Vertical Lamp

The Avalume is a rectilinear area luminaire defined by its sleek rounded profile and rugged construction. The housing is one-piece, die cast aluminum and mounts directly to a pole or wall without need of a separate support arm. The optical systems provide IES Types III, IV and V distributions. Vertical lamp luminaires feature vertical lamp position for minimized direct downlight and maximum performance. The door frame is single-piece die cast aluminum and retains an optically clear tempered flat glass lens. The luminaire is completely sealed and gasketed preventing intrusion from moisture, dust and insects. Avalume luminaires are finished with a fade and abrasion resistant TGIC powdercoat. Flat glass lens luminaires provide full cutoff performance.



| PREFIX               | MOUNTING             | DISTRIBUTION         | WATTAGE              | VOLTAGE              | FINISH               | OPTIONS              |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
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Enter the order code into the appropriate box above. Note: Philips Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

### PREFIX

**AVA** Avalume Horizontal Lamp Luminaire  
**AVV** Avalume Vertical Lamp Luminaire

### MOUNTING

**1** Single Pole Mount  
**2** Twin Pole Mount at 180°  
**2@90** Twin Pole Mount at 90°  
**3** 3-way Pole Mount at 90°  
**3@120°** 3-way Pole Mount at 120°  
**4** 4-way Pole Mount  
**W** Wall Mount  
**WS** Wall Mount with Surface Conduit

### DISTRIBUTION

#### Horizontal Lamp Luminaires (AVA) Only

**3** IES Type III  
**F** IES Type IV Forward Throw  
**5** Type V  
**MTS** Medium Throw with Solite™ Lens (Fluorescent only)

Type 3 reflectors ship as Type F. Removal of an insert converts the reflector to Type 3.

#### Vertical Lamp Luminaires (AVV) Only

**3V** IES Type III  
**FV** IES Type IV Forward Throw  
**5V** IES Type V

Type 3V reflectors ship as Type FV. Removal of an insert converts the reflector to Type 3V. Type 3V/FV optics are rotatable in 90° increments.

### WATTAGE

|  |                                 |                                 |                            |
|--|---------------------------------|---------------------------------|----------------------------|
| Pulse Start MH<br>Magnetic Ballast       | <b>100MH<sup>1</sup></b>        | <b>250PSMH</b> (E)              | <b>350PSMH</b> (E)         |
|  | <b>150MH<sup>1</sup></b>        | <b>250PS90<sup>**</sup></b> (E) | <b>400PSMH</b> (E)         |
|  | <b>175PSMH</b> (E)              | <b>320PSMH</b> (E)              |                            |
| Standard MH<br>Magnetic Ballast          | <b>175MH*</b>                   | <b>250MH*</b>                   | <b>400MH<sup>1,*</sup></b> |
| High Pressure Sodium<br>Magnetic Ballast | <b>150HPS</b>                   | <b>250HPS</b>                   | <b>400HPS</b>              |
| Compact Fluorescent                      | <b>(3)42TRF<sup>2,3,4</sup></b> |                                 |                            |

\* 175MH, 250MH and 400MH not available for sale in the United States.

\*\* 250 watt Pulse Start Metal Halide with a 90% efficient magnetic ballast. Complies with California Title 20 effective 1/1/2010. Available in 120, 208, 240 or 277V only.

**(E)** Wattages marked with Circle "E" meet federal energy efficiency standards applicable to 150 watt through 500 watt metal halide luminaires only.

### VOLTAGE

**120** **UNIV** (AVA only, Fluorescent only.)  
**208** Accepts 120V through 277V, 50hz to 60hz input.  
**240**  
**277**  
**347**  
**480**

1. Requires mogul base lamps.

2. Fluorescent luminaires feature electronic ballasts that accept 120V through 277V, 50hz to 60hz, input. Specify "UNIV" voltage for 120V through 277V.

3. Fluorescent available in AVA luminaires only, MTS optics only.

4. Fluorescent luminaires not available in 347V or 480V.

1611 Clovis Barker Road, San Marcos, TX 78666  
(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 [sitelighting.com](http://sitelighting.com)

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### FINISH

|            |  |
|------------|--|
| <b>BRP</b> | Bronze Paint   |
| <b>BLP</b> | Black Paint  |
| <b>NP</b>  | Natural Aluminum Paint   |
| <b>WP</b>  | WhitePaint   |
| <b>OC</b>  | Optional Color Paint<br><i>Specify Optional Color or RAL ex: OC-LGP or OC-RAL7024.</i> |
| <b>SC</b>  | Special Paint<br><i>Specify. Must supply color chip.</i>                               |

### OPTIONS<sup>5</sup>

|                           |   |
|---------------------------|---|
| <b>HS<sup>6</sup></b>     | External House Side Shield                |
| <b>LF<sup>7</sup></b>     | In-Pole/In-Line Fusing                    |
| <b>PC<sup>8</sup></b>     | Photocontrol Receptacle with Photocontrol |
| <b>PCR</b>                | Photocontrol Receptacle Mast Arm Fitter   |
| <b>MF<sup>9</sup></b>     | Mast Arm Fitter                           |
| <b>PTF2</b>               | Pole Top Fitter 2.375" X 4"               |
| <b>PTF3</b>               | Pole Top Fitter 3" - 3.5" X 6"            |
| <b>PTF4</b>               | Pole Top Fitter 3.5" - 4" X 6"            |
| <b>QS<sup>10</sup></b>    | Quartz Standby                            |
| <b>QST<sup>10</sup></b>   | Quartz Standby - Timed Delay              |
| <b>Q924<sup>10</sup></b>  | Quartz Emergency                          |
| <b>QT924<sup>10</sup></b> | Quartz Emergency - Timed Delay            |
| <b>WG</b>                 | Wire Guard                                |
| <b>POLY<sup>11</sup></b>  | External Polycarbonate Shield             |
| <b>TB</b>                 | Terminal Block                            |

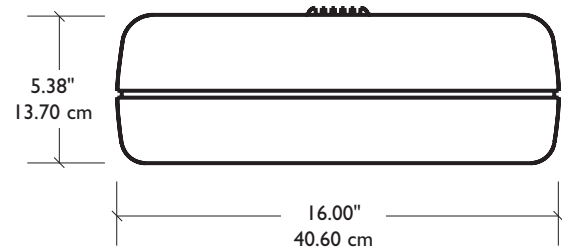
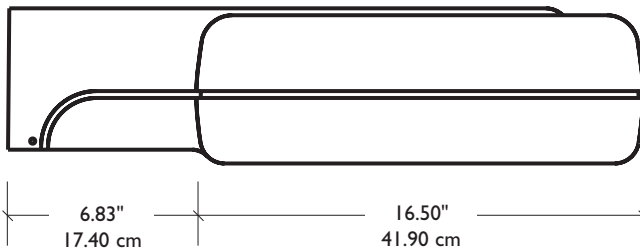
5. Luminaires shipped complete from stock require field installation of all options.
6. Supplied standard in black only.
7. Kit includes In-Line Fuses.
8. Not available with 480V.
9. Requires 2 3/8" O.D. Mast Arm.
10. See QS/Q924 Table.
11. 250 watt maximum.

| (Note 10) QS / Q924 Table       |                           |
|---------------------------------|---------------------------|
| HID Lamp Watts                  | Maximum Quartz Lamp Watts |
| 175 watts or less               | 100 Watts                 |
| Above 175 watts up to 400 watts | 150 Watts                 |

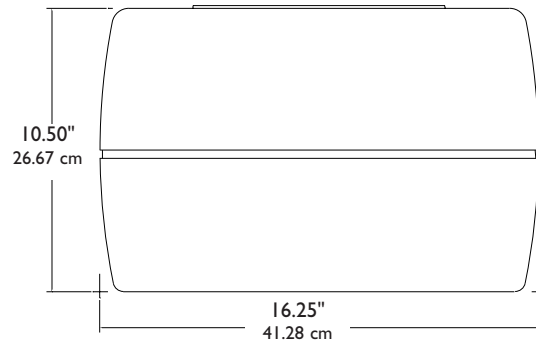
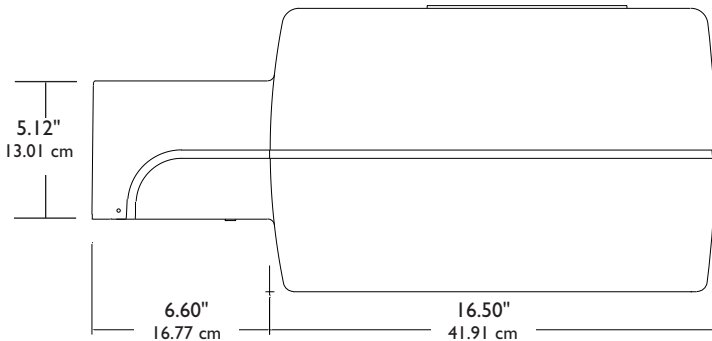
QS, QST, Q924 and QT924 options not available with 480V.

### DIMENSIONS AND EPA

#### AVALUME HORIZONTAL (AVA)



#### AVALUME VERTICAL (AVV)



| Avalume Horizontal (AVA)        | Effective Projected Area (EPA) |                     |                     | Approximate Weight / Single |
|---------------------------------|--------------------------------|---------------------|---------------------|-----------------------------|
|                                 | Single                         | Twin                | 3/4                 |                             |
| Flat Lens                       | 1.1 ft <sup>2</sup>            | 2.2 ft <sup>2</sup> | 2.7 ft <sup>2</sup> | 35 lbs<br>15.9 kg           |
|                                 | .10 m <sup>2</sup>             | .20 m <sup>2</sup>  | .25 m <sup>2</sup>  |                             |
| With External House Side Shield | 1.2 ft <sup>2</sup>            | 2.2 ft <sup>2</sup> | 3.2 ft <sup>2</sup> |                             |
|                                 | .11 m <sup>2</sup>             | .20 m <sup>2</sup>  | .30 m <sup>2</sup>  |                             |

| Avalume Vertical (AVV)          | Effective Projected Area (EPA) |                      |                      | Approximate Weight / Single |
|---------------------------------|--------------------------------|----------------------|----------------------|-----------------------------|
|                                 | Single                         | Twin                 | 3/4                  |                             |
| Flat Lens                       | 1.3 ft <sup>2</sup>            | 2.6 ft <sup>2</sup>  | 3.23 ft <sup>2</sup> | 46 lbs<br>20.9 kg           |
|                                 | .13 m <sup>2</sup>             | .25 m <sup>2</sup>   | .31 m <sup>2</sup>   |                             |
| With External House Side Shield | 1.54 ft <sup>2</sup>           | 2.82 ft <sup>2</sup> | 4.36 ft <sup>2</sup> |                             |
|                                 | .15 m <sup>2</sup>             | .27 m <sup>2</sup>   | .41 m <sup>2</sup>   |                             |

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## SPECIFICATIONS

**GENERAL SPECIFICATIONS:** Each Avalume luminaire is a rectilinear area luminaire defined by its sleek rounded profile and rugged construction.

**HOUSING:** The housing is one-piece diecast aluminum, and mounts directly to a pole or wall without the need of a separate support arm. The low profile rounded form reduces the Avalume Horizontal Lamp E.P.A. (Effective Projected Area) of the luminaire to only 1.1 square feet (0.10 square meters), and the Avalume Vertical Lamp EPA to only 1.3 square feet (0.13 square meters)

**DOOR/LENS ASSEMBLY:** The door frame is single-piece diecast aluminum and retains an optically clear tempered flat glass lens. The diecast aluminum lens frame hinges down from the housing and is secured by a stainless steel lanyard and hinge pin. The tempered flat glass lens is mechanically secured with four (4) retainers. The electrical and optical chambers are thoroughly sealed with an extruded one-piece memory retentive extruded silicone gasket to prevent intrusion from moisture, dust, insects and other contaminants.

**OPTICAL SYSTEMS:** Avalume Horizontal Lamp luminaires feature segmented reflector systems consisting of two tiers of highly specular aluminum facets, precisely aligned to achieve specific photometric distributions. Optical systems are of the fixed position type with the lampholder positioned on the arm-side of the luminaire.

Avalume Horizontal Lamp fluorescent luminaires use a Medium Throw reflector with a Solite® glass lens (MTS).

Avalume Vertical Lamp luminaires feature spun specular Alzak® and segmented reflector system consisting of highly specular aluminum facets, precisely aligned to achieve specific photometric distributions. The Type 3V/FV optical system is rotatable in 90° increments.

The position-oriented mogul base lampholder in all luminaires is glazed porcelain with a nickel plated screw shell.

**ELECTRICAL:** All electrical components are UL recognized and factory tested. Electronic and magnetic HID ballasts are high power factor. Magnetic HID ballasts are the separate component type. Electronic and magnetic HID ballasts are capable of providing reliable lamp starting down to -20°F / -29°C. Standard fluorescent ballasts are solid state.

**FINISH:** Each standard color luminaire receives a fade and abrasion resistant electrostatically applied thermally cured triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include Bronze (BRP), Black (BLP), White (WVP), Natural Aluminum (NP). Consult factory for specifications on custom colors.

**LABELS:** All luminaires bear U.L. or C.U.L. (where applicable) Wet Location labels.

**WARRANTY:** Emco luminaires feature a 1 year limited warranty. See Warranty Information on [www.sitelighting.com](http://www.sitelighting.com) for complete details and exclusions.

**FULL CUTOFF PERFORMANCE:** Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

**CUTOFF PERFORMANCE:** Cutoff performance means a luminaire distribution where the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle at or above 90° above nadir, and 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.