



## AREA LIGHT(AL02)

### Applications:

Auto dealerships, parking lots, walkways, roadways, campuses, facade lighting and other public areas.

### FEATURES

- The one piece die-cast aluminum housing with UV resistant polycarbonate optical lens, outstanding corrosion protection.
- Lumen output 19500-51000lm with efficacy to 146lm/W.
- Various distribution patterns including Type III and Type IV and Type V
- Suitable for mounting heights ranging from 26-40' in area lighting applications
- Round pole, Square pole, slipfitter and wall mount
- Optional for photocell. Increase energy savings with bi-level motion sensor
- Voltage is 120-277V / 347V-480V and support 0-10V dimmable
- Fixtures are suitable for use in ambients from -40°C to 45 °C (-40 °F to 113 °F).
- Expected service life is over 100,000 hrs and 10 year limited warranty
- UL and Wet location listed

Medium Size: 150W/200W



Large Size: 250W/300W



#### Housing

Features a compact, one-piece die cast housing, saving costs versus models that are extruded or cast and require additional parts. The heat sink is included in the actual casting, further minimizing the need for additional parts.

#### Photometry

Optional Type III or type IV or type V Photometry as per applications.

#### PIR Sensor

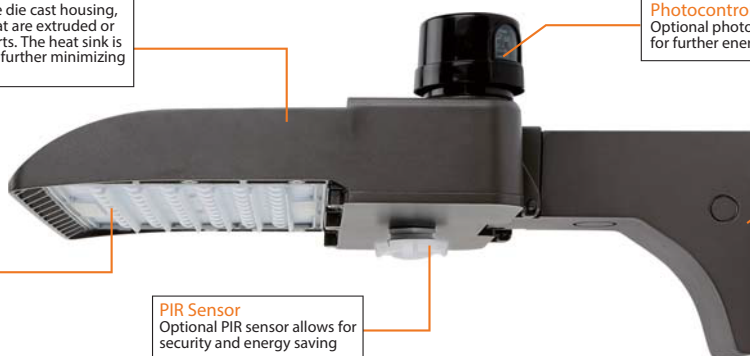
Optional PIR sensor allows for security and energy saving

#### Photocontrol

Optional photocontrol allows for further energy saving.

#### Standard Arm Mount

The design features an integral arm, increasing strength and simplifying installation.



# Wireless Lighting Control System

G5 Smart Wireless Lighting Controls System is an indoor or outdoor wireless control system for the parking lot, street, roadway and commercial lights. The unique technology inside this system enables customer to remote monitor and operate all fixtures through a Web-enabled central management system. Customer can use any Internet enabled equipment, such as smart phone, computer or tablet, to access the user portal of the system.



**Wireless Control Node**  
Leverages building data to help you optimize your savings

+



**Smart Gateway**  
Stores and transmits real-time building usage data

+



**Lighting Fixture**  
Highly efficient LED fixtures

+



**Software Services**  
Mobile & Web application

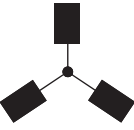
## Features

- Accurate, utility-grade energy metering per fixture or per circuit
- Stores days of energy data in local memory in case of network outage and automatically synchronize data with central database once network recovers
- Provides real-time(less than 100ms response time) protection on fixtures from the out of range voltage
- Real-time detects the theft of electricity and reports time, wattage and location to the operation center
- Automatically download programmed schedules
- Maintain a redundant mesh network through encrypted connections
- Integrated with latest video surveillance system
- Provide integration interface on the control board and software platform. Capable of integration with police and city management system

## PERFORMANCE DATA

|              |           | 4000K(70CRI) |          |   |   |   | 5000K(70CRI) |          |   |   |   |
|--------------|-----------|--------------|----------|---|---|---|--------------|----------|---|---|---|
| SYSTEM WATTS | DIST.TYPE | LUMENS       | LPW      | B | U | G | LUMENS       | LPW      | B | U | G |
| 150W         | 3         | 19500lm      | 130 lm/W | 3 | 0 | 2 | 19700lm      | 131 lm/W | 3 | 0 | 2 |
|              | 4         | 18000lm      | 120 lm/W | 3 | 0 | 3 | 18500lm      | 123 lm/W | 3 | 0 | 3 |
|              | 5         | 21000lm      | 140 lm/W | 4 | 0 | 2 | 21150lm      | 141 lm/W | 4 | 0 | 2 |
| 200W         | 3         | 26000lm      | 130 lm/W | 3 | 0 | 2 | 26200lm      | 131 lm/W | 3 | 0 | 2 |
|              | 4         | 24000lm      | 120 lm/W | 3 | 0 | 3 | 24500lm      | 123 lm/W | 3 | 0 | 3 |
|              | 5         | 27000lm      | 135 lm/W | 4 | 0 | 2 | 27200lm      | 136 lm/W | 4 | 0 | 2 |
| 250W         | 3         | 33000lm      | 132 lm/W | 4 | 0 | 3 | 33250lm      | 133 lm/W | 4 | 0 | 3 |
|              | 4         | 30000lm      | 120 lm/W | 4 | 0 | 3 | 30500lm      | 122 lm/W | 4 | 0 | 3 |
|              | 5         | 35000lm      | 140 lm/W | 5 | 0 | 2 | 35250lm      | 141 lm/W | 5 | 0 | 2 |
| 300W         | 3         | 39000lm      | 130 lm/W | 4 | 0 | 3 | 39300lm      | 131 lm/W | 4 | 0 | 3 |
|              | 4         | 36000lm      | 120 lm/W | 4 | 0 | 4 | 37590lm      | 125 lm/W | 4 | 0 | 4 |
|              | 5         | 42000lm      | 140 lm/W | 5 | 0 | 2 | 42300lm      | 141 lm/W | 5 | 0 | 2 |

## EPA OF AREA LIGHT

| Item      |  |  |  |  |  |  |  |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|           | 1                                                                                   | 2 @90°                                                                              | 2 @120°                                                                             | 2@180°                                                                              | 3 @90°                                                                               | 3 @120°                                                                               | 4 @90°                                                                                |
| 150W/200W | 0.4418                                                                              | 0.7145                                                                              | 0.8813                                                                              | 0.8836                                                                              | 1.0548                                                                               | 1.0135                                                                                | 1.0548                                                                                |
| 250W/300W | 0.5614                                                                              | 0.8471                                                                              | 1.105                                                                               | 1.1228                                                                              | 1.294                                                                                | 1.2503                                                                                | 1.294                                                                                 |

ELECTRICAL DATA

| Number Of Drivers | Driver Current (mA) | Nominal Power (W) | INPUT VOLTAGE (V) | CURRENT (Amps) |
|-------------------|---------------------|-------------------|-------------------|----------------|
| 1                 | 3900                | 150               | 120               | 1.25           |
|                   |                     | 150               | 208               | 0.72           |
|                   |                     | 150               | 240               | 0.63           |
|                   |                     | 150               | 277               | 0.54           |
|                   |                     | 150               | 347               | 0.43           |
|                   |                     | 150               | 480               | 0.31           |
| 1                 | 5100                | 200               | 120               | 1.67           |
|                   |                     | 200               | 208               | 0.96           |
|                   |                     | 200               | 240               | 0.83           |
|                   |                     | 200               | 277               | 0.72           |
|                   |                     | 200               | 347               | 0.58           |
|                   |                     | 200               | 480               | 0.42           |
| 1                 | 6400                | 250               | 120               | 2.08           |
|                   |                     | 250               | 208               | 1.20           |
|                   |                     | 250               | 240               | 1.04           |
|                   |                     | 250               | 277               | 0.90           |
|                   |                     | 250               | 347               | 0.72           |
|                   |                     | 250               | 480               | 0.52           |
| 1                 | 6000                | 300               | 120               | 2.50           |
|                   |                     | 300               | 208               | 1.44           |
|                   |                     | 300               | 240               | 1.25           |
|                   |                     | 300               | 277               | 1.08           |
|                   |                     | 300               | 347               | 0.86           |
|                   |                     | 300               | 480               | 0.63           |

MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Wall Mount available for direct wall mounting and J-box mounting
- Optional for cast aluminum slipfitter mounting adapter (Compatible with more Alpha Omega Lighting mounting adaptors such as Tenon, suits for various application)

Mounting Options



Arm Mount (4" and 5" Square and Round poles)  
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

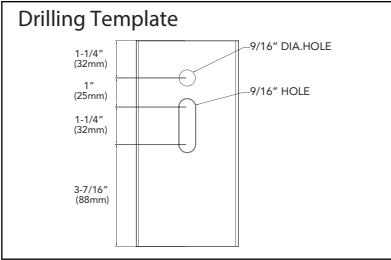
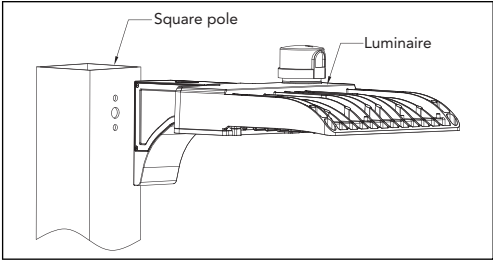
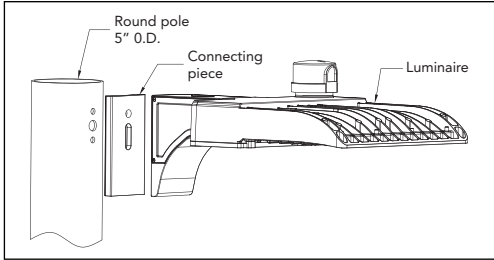


Slipfitter Mount  
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8"O.D. pipe size) horizontal steel tenon arm.



Wall Mount  
Wall Mount is easy to install for direct wall mounting with 1/2" conduit wiring or standard J-box mounting

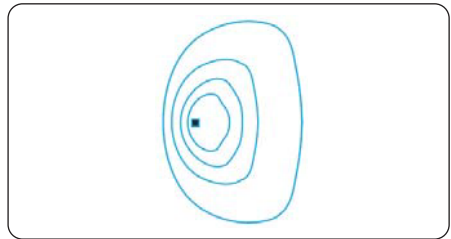
Mounting Dimensions



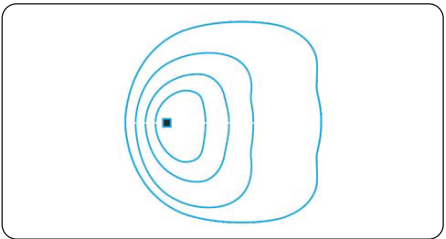
PHOTOMETRICS

Mester offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

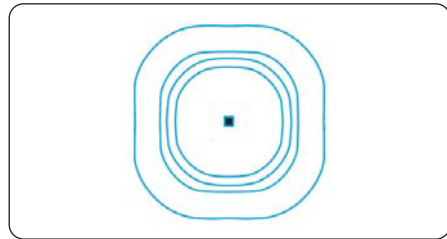
Type 3:  
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.



Type 4:  
Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.



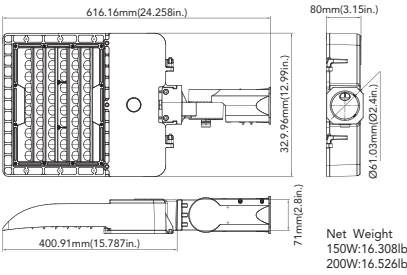
Type 5:  
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications



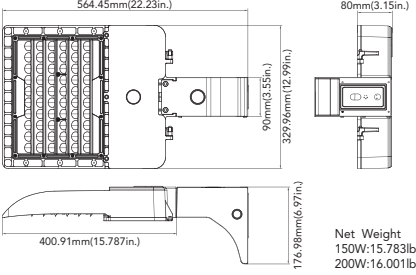
DIMENSIONS

unit: inch/mm

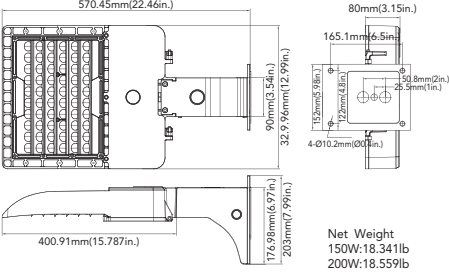
Slipfitter Mount(150W&200W)



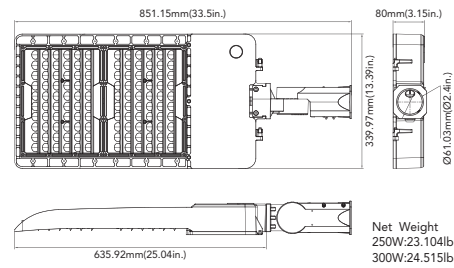
Pole Mount(150W&200W)



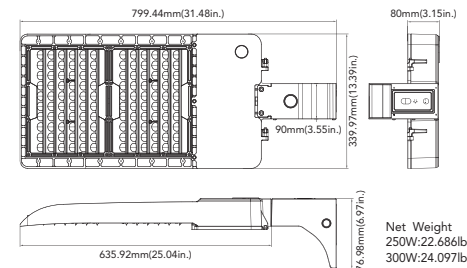
Wall Mount(150W&200W)



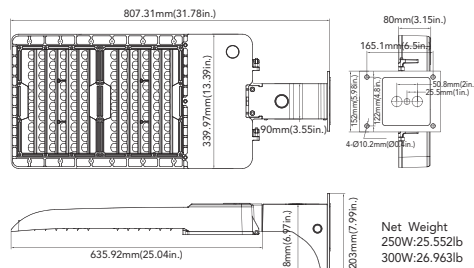
Slipfitter Mount(250W&300W)



Pole Mount(250W&300W)



Wall Mount(250W&300W)



ORDERING GUIDE

Example: AO-AL02-150-LV-XXX-Y-Y-Y-Y-Y

| Fixture Type              | Wattage                                      | Voltage                    | CCT                    | Finish                                                | Photocell (Option)                                                                         | Sensor (Option)                                                           | Mounting                                                     | Photometry                                                              |
|---------------------------|----------------------------------------------|----------------------------|------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------|
| AO- <input type="text"/>  | <input type="text"/>                         | <input type="text"/>       | <input type="text"/>   | <input type="text"/>                                  | <input type="text"/>                                                                       | <input type="text"/>                                                      | <input type="text"/>                                         | <input type="text"/>                                                    |
| AL02<br>Area Light Series | 150 150W<br>200 200W<br>250 250W<br>300 300W | LV 120-277V<br>HV 347-480V | 40K 4000K<br>50K 5000K | D Dark Bronze<br>B Black<br>W White<br>SG Silver Gray | P0 120-277V Photocell<br>P3 347V Photocell<br>P4 480V Photocell<br>Blank Without Photocell | M With 120-277V Sensor<br>M4 With 347-480V Sensor<br>Blank Without Sensor | SQ Square Pole Mount<br>SP Slipfitter Mount<br>WM Wall Mount | T3 TYPE III Photometry<br>T4 TYPE IV Photometry<br>T5 TYPE V Photometry |

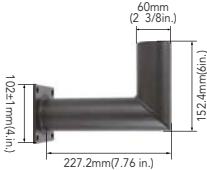
Note: Input voltage may vary depends on photocell(sensor) configuration

ADDITIONAL MOUNTING ACCESSORIES

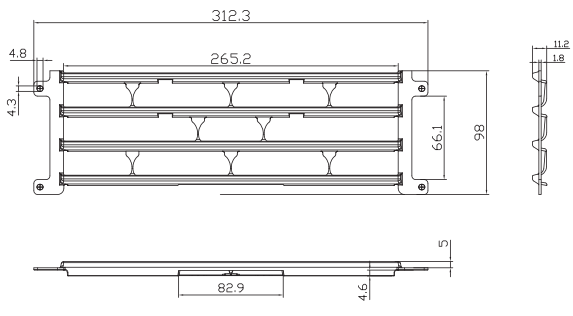
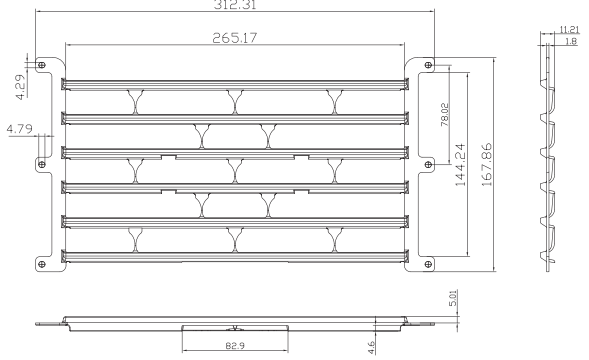
POLE BRACKET • For mounting one fixture on an existing pole

|  |                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                                           |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>4" Square Pole Mount with 2-3/8" O.D. Tenon</b><br>NO. 4SQ-SP-D<br>Finish: Dark Bronze<br>USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally. |  | <b>4" Round Pole Mount with 2-3/8" O.D. Tenon</b><br>NO. 4RQ-SP-D<br>Finish: Dark Bronze<br>USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally. |
|  | <b>5" Square Pole Mount with 2-3/8" O.D. Tenon</b><br>NO. 5SQ-SP-D<br>Finish: Dark Bronze<br>USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally. |  | <b>5" Round Pole Mount with 2-3/8" O.D. Tenon</b><br>NO. 5RQ-SP-D<br>Finish: Dark Bronze<br>USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally. |
|  | <b>Pole Bracket accessories-Tenon &amp; Yoke Adaptor</b><br>NO. SP-TR-D<br>Finish: Dark Bronze<br>USE: The 2-3/8" OD Tenon Mount Adaptor for Yoke Fixtures is designed to mount AOL light fixtures that are equipped with a yoke mount onto a 2-3/8" OD tenon. It may be utilized with the Alpha Omega Lighting Flood Light Series of light fixtures.                       |  |                                                                                                                                                                                                                                                                                                                                                                           |

## ADDITIONAL MOUNTING ACCESSORIES

| WALL BRACKET                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mid-Pole tenon Bracket                                                             |                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p><b>90° Wall Mount Bracket with 2-3/8" O.D. Tenon</b><br/>NO. WM-SP-D<br/>Finish: Dark Bronze<br/>USE: The 90° wall mount bracket with 2-3/8" tenon attaches an AOL floodlight to almost any surface: wall, roof, or wood pole. Provides wiring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.</p> |  | <p><b>2-3/8" OD Horizontal Tenon Mid-Pole Bracket</b><br/>NO. SQ-SP-D<br/>Finish: Dark Bronze<br/>USE: 2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter onto a 2-3/8" OD horizontal tenon</p>               |
| Round External Mount Horizontal Tenon · To mount 2/3/4 fixtures on a existing pole |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                                                                                                                                                                                                                                                         |
|   | <p><b>Double 90° Horizontal Tenon Adaptor</b><br/>NO. R60-SP2-90-D<br/>Finish: Dark Bronze<br/>USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>                                                                                                                                                 |  | <p><b>Triple 120° Horizontal Tenon Adaptor</b><br/>NO. R60-SP3-120-D<br/>Finish: Dark Bronze<br/>USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p> |
|   | <p><b>Double 180° Horizontal Tenon Adaptor</b><br/>NO. R60-SP2-180-D<br/>Finish: Dark Bronze<br/>USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>                                                                                                                                               |  | <p><b>Quad 90° Horizontal Tenon Adaptor</b><br/>NO. R60-SP4-90-D<br/>Finish: Dark Bronze<br/>USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>      |
|  | <p><b>Triple 90° Horizontal Tenon Adaptor</b><br/>NO. R60-SP3-90-D<br/>Finish: Dark Bronze<br/>USE: The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>                                                                                                                                               |                                                                                    |                                                                                                                                                                                                                                                                                         |

## BACKLIGHT CONTROL ACCESSORIES

|                                                                                                                                                             |  |                                                                                                                                                             |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                          |  |                                                                         |  |
| <b>Backlight Control</b><br>NO. SC-AL01-100W-BA<br>USE: It will reduce the light spill behind the pole.<br>Finish: Black<br>Only suitable for 70W and 105W. |  | <b>Backlight Control</b><br>NO. SC-AL01-150W-BA<br>USE: It will reduce the light spill behind the pole.<br>Finish: Black<br>Only suitable for 150W to 300W. |  |