



## **ARCHER G2**

Architectural Area Light/Floodlight Combination

## AR2-150P

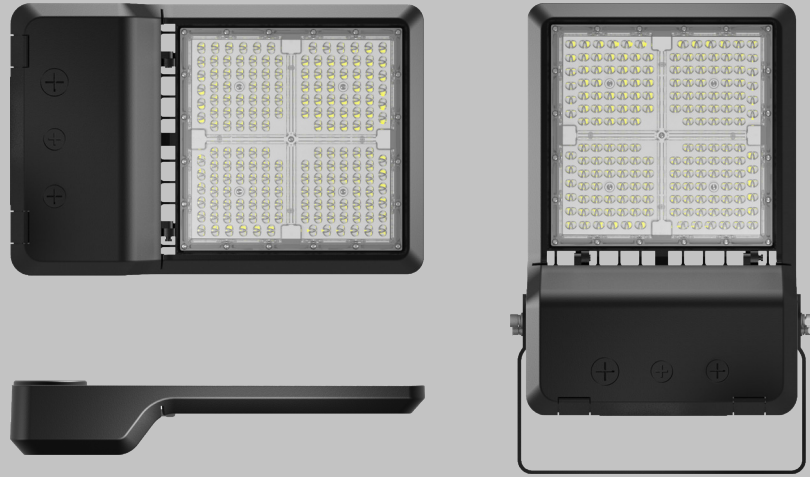
### 150W POWER SELECTABLE LED AREA LIGHT

#### DESCRIPTION

150W Power Selectable LED Area Light/120-277VAC  
Universal Input (347-480V input optional)/Bronze  
Housing (Custom Input optional)/Multiple Mounting,  
Optics, and Control options

#### APPLICATION

With 4 optics available, the fixture is ideal for walkways, roadways, parking lots, auto dealerships, recreational venues, and other outdoor lighting needs. Adjustable arm mount, slip fitter and wall mount are provided for different applications.



#### PRODUCT FEATURES

- Heavy duty die cast aluminum housing with ample heat sinking.
- Compact, low profile design delivers high-performance.
- High-quality finishes prevent corrosion, protects against extreme environmental conditions.
- Custom paint are available with additional cost and lead time.
- Power selectable technology, covering 3 wattage selections(150W/120W/100W) with 1 SKU.
- Type III lens comes standard(pre-installed). Type II, Type IV and Type V lenses sold separately.
- Four contractor-friendly mounting options available (sold separately).
- 0-10V dimmable (0-100%) 12V AUX power tap, 6KV surge protection.
- 347-480V are available with additional cost and lead time.
- Sensor receptacle pre-installed, plug-and-play occupancy sensor sold separately.
- Bluetooth mesh smart sensor optional.
- Integrated NEMA/ANSI C136.10 3-pin and 7-pin photocell optional.
- UL Certified; IP 65 rated; DLC Premium V5.1 listed.

#### PRODUCT SPECIFICATIONS

| Model Number   | Nominal Wattage | CCT   | Wattage (W) | Efficacy (LM/W) | Lumens (LM) | Input Voltage(VAC)               | CRI | Distribution | BUG      |
|----------------|-----------------|-------|-------------|-----------------|-------------|----------------------------------|-----|--------------|----------|
| AR2-150P-40-T3 | 150W            | 4000K | 147.0       | 151.9           | 22,056      | 120-277<br>(347-480<br>Optional) | >80 | Type III     | B4-U3-G3 |
|                | 120W            |       | 121.0       | 161.8           | 19,593      |                                  |     |              | B3-U3-G3 |
|                | 100W            |       | 102.0       | 164.9           | 16,883      |                                  |     |              | B3-U3-G3 |
| AR2-150P-50-T3 | 150W            | 5000K | 147.0       | 155.0           | 22,701      | 120-277<br>(347-480<br>Optional) | >80 | Type III     | B4-U3-G3 |
|                | 120W            |       | 121.0       | 165.0           | 19,985      |                                  |     |              | B3-U3-G3 |
|                | 100W            |       | 102.0       | 168.2           | 17,221      |                                  |     |              | B3-U3-G3 |
| AR2-150P-40-T5 | 150W            | 4000K | 158.0       | 152.8           | 24,101      | 120-277<br>(347-480<br>Optional) | >80 | Type V       | B4-U3-G3 |
|                | 120W            |       | 121.0       | 160.2           | 19,399      |                                  |     |              | B2-U3-G2 |
|                | 100W            |       | 102.0       | 166.2           | 16,967      |                                  |     |              | B2-U3-G2 |
| AR2-150P-50-T5 | 150W            | 5000K | 158.0       | 155.9           | 24,583      | 120-277<br>(347-480<br>Optional) | >80 | Type V       | B4-U3-G3 |
|                | 120W            |       | 121.0       | 163.4           | 19,787      |                                  |     |              | B2-U3-G2 |
|                | 100W            |       | 102.0       | 169.5           | 17,306      |                                  |     |              | B2-U3-G2 |

\*T3 optics comes pre-installed. T2, T4 and T5 are optional and assembled to order. Lead times may apply.

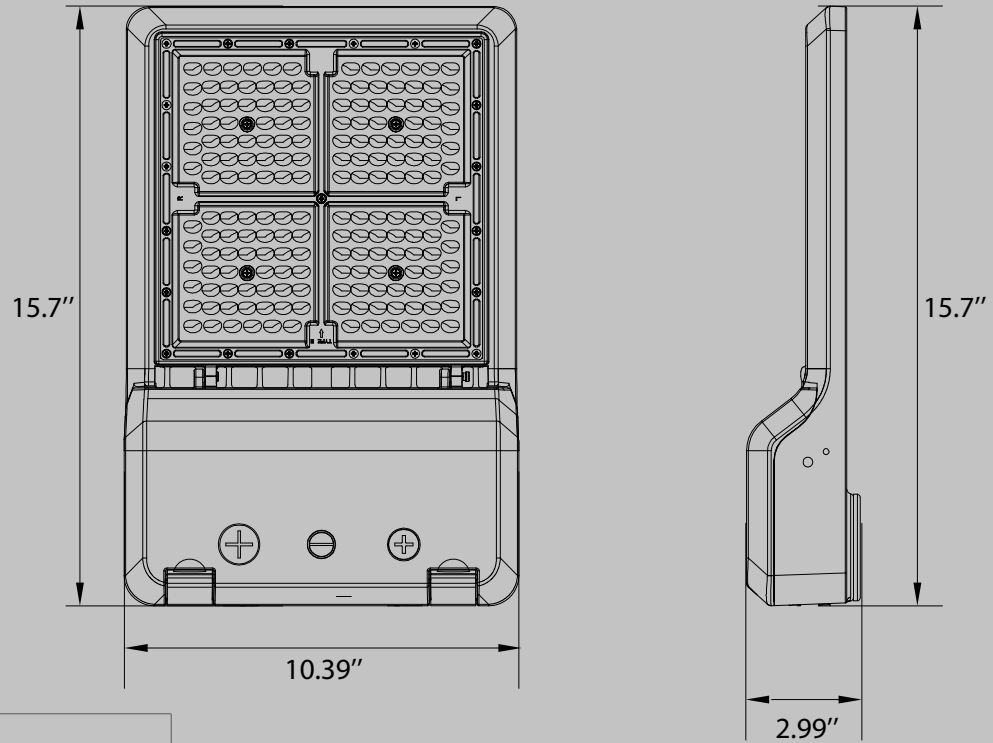
\*\*Mounts, sensors and photocells are sold separately. Custom finish are available and made to order. Extended lead times may apply.

\*\*\*Please contact sales team for more details are smart control.

**AR2-150P**  
150W POWER SELECTABLE LED AREA LIGHT

**PHYSICAL SPECIFICATIONS**

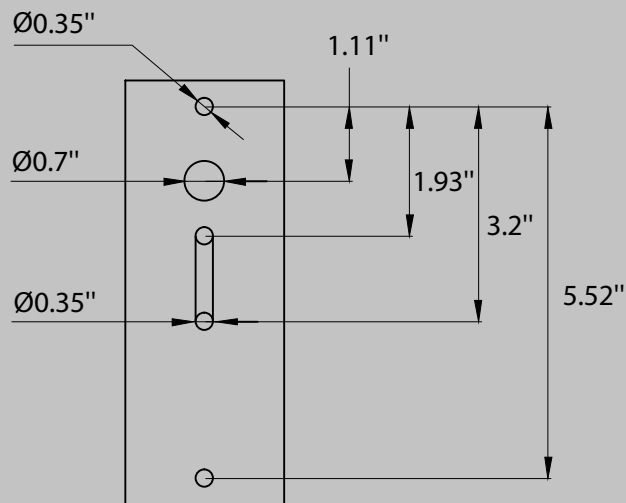
LED AREA LIGHT FIXTURE



**PACKAGING**

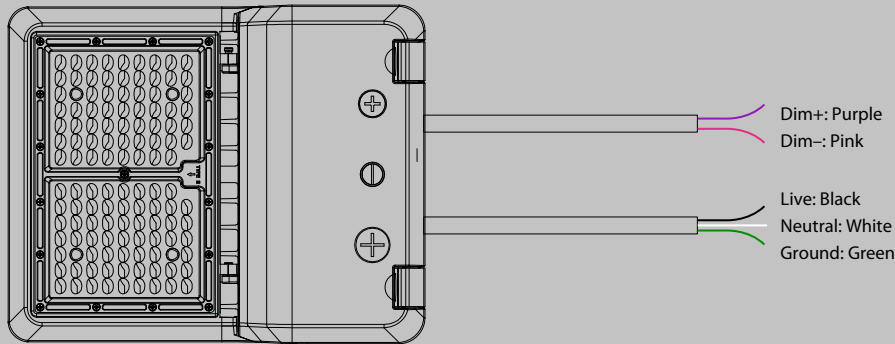
|                   |                         |
|-------------------|-------------------------|
| Carton Quantity   | 1 piece                 |
| Carton Dimensions | 5.8"H x 12.3"W x 25.2"L |
| Carton Weight     | 8.9 lbs                 |

**POLE MOUNT (ADJUSTABLE OR FIXED)  
DRILLING HOLES**



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**WIRING DIAGRAM**



- Make input connections as needed and ensure connections are protected from exposure to the elements.

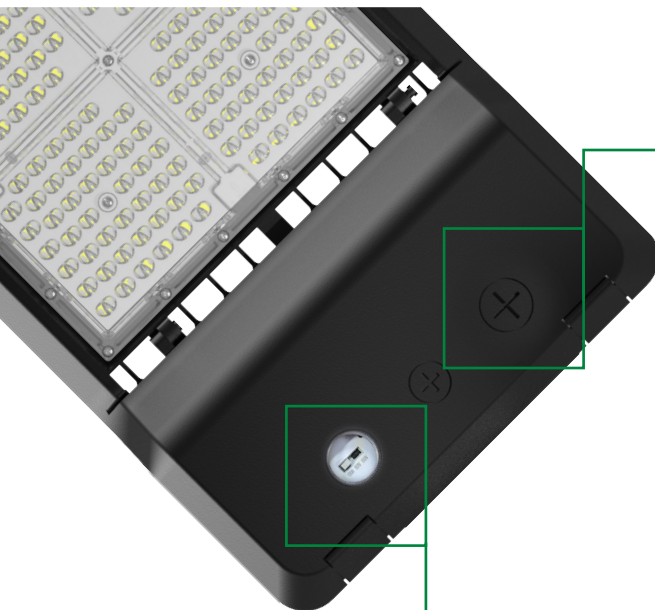
- Input voltage rating: 120-277V/347-480V Optional

- Ensure that input voltage on site matches the fixture you intend to install.

**POWER SELECTABLE AND PLUG-AND-PLAY SENSOR**

This fixture is equipped with field-adjustable Power Select technology.

1. Ensure power is off to the fixture.
2. Open the driver compartment located on the underside of the fixture.
3. Adjust switches to desired settings.



**PLUG AND PLAY MICROWAVE SENSOR**

With pre-installed receptacle, microwave sensor can be added on site to save labor cost.



**POWER SELECT ADJUSTMENT DIAL**

Set switch to adjust wattage between 150W, 120W, and 100W. Fixture comes preset at 150W.

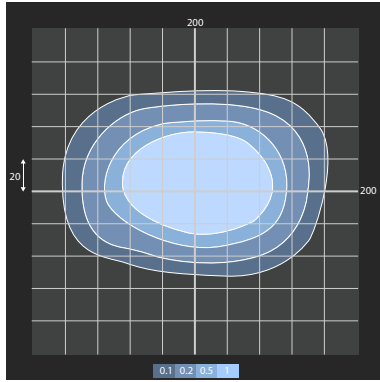


**AR2-150P**  
150W POWER SELECTABLE LED AREA LIGHT

**LIGHT DISTRIBUTION PATTERN**

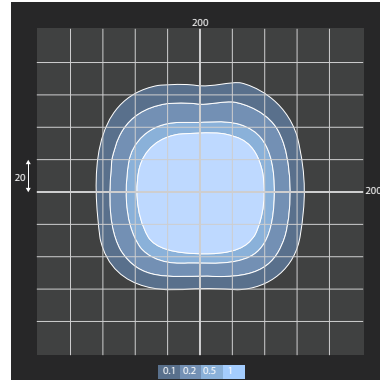
**TYPE III (T3)**

Area light is mounted at 20 ft. Calculation Area is set as 200 x 200 ft and the point spacing is 20 x 20 ft.

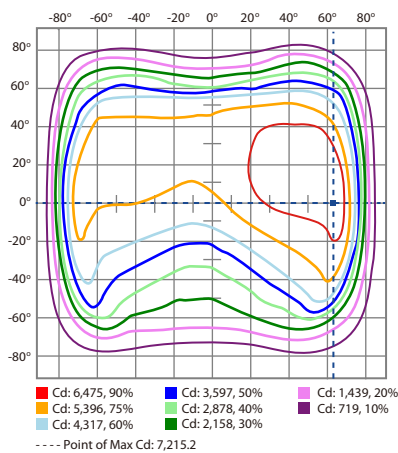


**TYPE V (T5)**

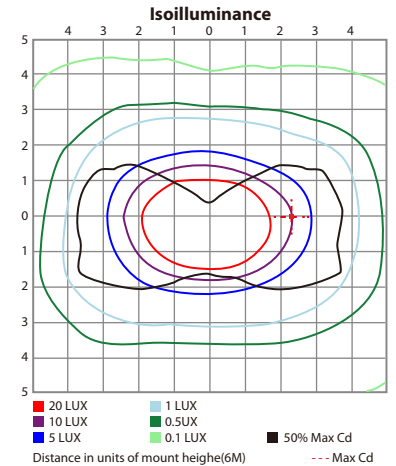
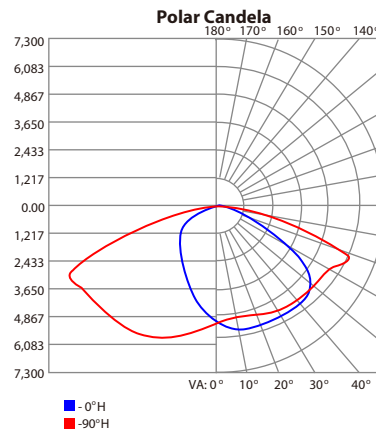
Area light is mounted at 20 ft. Calculation Area is set as 200 x 200 ft and the point spacing is 20 x 20 ft.



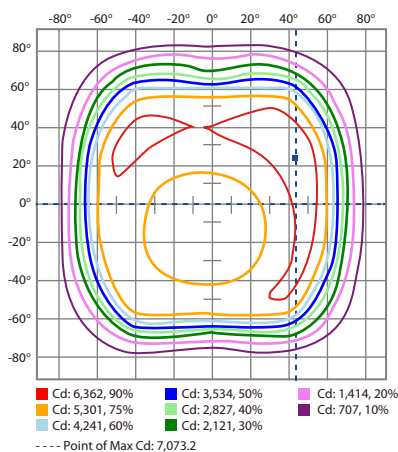
**PHOTOMETRIC SPECS (TYPE III)**  
**ISOCANDELA PLOT**



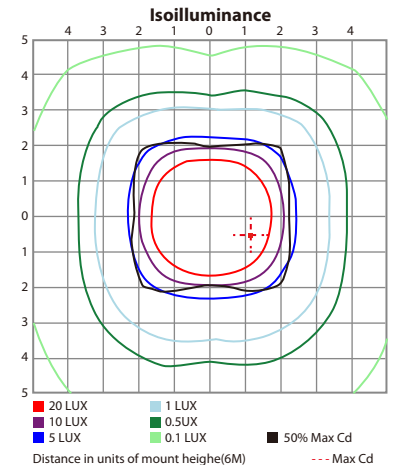
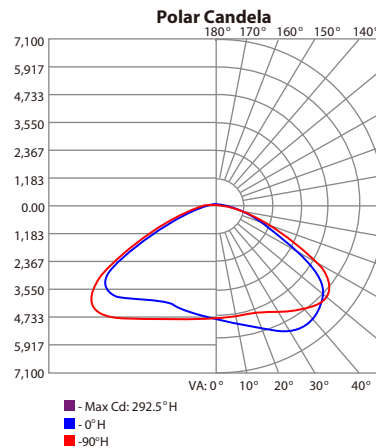
**POLA CANDELA CURVE**



**PHOTOMETRIC SPECS (TYPE V)**  
**ISOCANDELA PLOT**



**POLA CANDELA CURVE**



## AR2-150P

150W POWER SELECTABLE LED AREA LIGHT

### ACCESSORIES (SOLD SEPARATELY)

#### SENSORS & PHOTOCELLS

| SUFFIX | MODEL NUMBER           | DESCRIPTION                                      |
|--------|------------------------|--------------------------------------------------|
| SQ     | HB01DMS                | Microwave Occupancy Sensor, 12VDC                |
| RQ     | RE-HB01DMS             | Remote for HB01DMS                               |
| RR     | HD09VR-PH              | PIR Sensor, 12VDC                                |
| P1     | JL-207C                | NEMA Type Twist-Lock 3-Pin Photocell, 120-277VAC |
| P2     | JL-207F                | NEMA Type Twist-Lock 3-Pin Photocell, 480V       |
| P4     | JL-243C                | NEMA Type Twist-Lock 7-Pin Photocell, 120-277VAC |
| W4     | PSC-BL-I-FM-DC-BLE-SR  | Bi-Level PIR Occupancy Sensor, 12VDC             |
| W10    | PSC-ZKV-I-100-BLE-SR   | PIR OCCC Sensor, 12VDC                           |
| W11    | PSC-ZKV-WCM-100-BLE-SR | 0-10V MESH Controller, 12-24VDC                  |
| W12    | PSC-WCM-50-BLE-SR      | PSC-WCM-50-BLE-SR                                |
| BO     | HDO9VR-MHB             | BLE Microwave Sensor, 12VDC                      |
| BQ     | HDO9VR-PHB             | BLE PIR Sensor, 12VDC                            |

#### Factory-Installable OR Field-Installable (field-installable purchased separately)

|                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|   |   |   |   |   |
| Microwave<br>Occupancy Sensor<br>HB01DMS                                            | Remote<br>for HB01DMS<br>RE-HB01DMS                                                 | NEMA Type Twist-Lock<br>3-Pin Photocell<br>JL-207C/JL-207F                          | NEMA Type Twist-Lock<br>7-Pin Photocell<br>JL-243C                                    | Remote<br>Control<br>KTS-MW3-REMOTECONTROL                                            |
|  |  |  |  |  |
| Bi-Level PIR<br>Occupancy Sensor<br>PSC-BL-I-FM-DC-BLE-SR                           | PIR<br>Occupancy Sensor<br>PSC-ZKV-I-100-BLE-SR                                     | 0-10V MESH<br>Controller<br>PSC-ZKV-WCM-100-BLE-SR                                  | HD09VR-MHB                                                                            | HD09VR-PH &<br>HD09VR-PHB                                                             |

\* For factory installation of accessory, add suffix to fixture part number (see ordering examples and instructions on last page of spec sheet).

#### LENS&BACKLIGHT SHIELD

| SUFFIX | MODEL NUMBER  | DESCRIPTION                                     |
|--------|---------------|-------------------------------------------------|
| L2A    | LEN-T2-AR2-01 | Type II Lens for 100W G2 Archer Area Light, 1:1 |
| L4A    | LEN-T4-AR2-01 | Type IV Lens for 100W G2 Archer Area Light, 1:1 |
| L5A    | LEN-T5-AR2-01 | Type V Lens for 100W G2 Archer Area Light, 1:1  |
| SHD    | SHD-AR-G2-01  | Backlight Shield for AR2-150P                   |

#### SPD

|     |          |                                          |
|-----|----------|------------------------------------------|
| SP1 | SPD-277P | Surge Protective Device, 277Vac, 10KA/KV |
| SP2 | SPD-480P | Surge Protective Device, 277Vac, 10KA/KV |

## AR2-150P

150W POWER SELECTABLE LED AREA LIGHT

### ACCESSORIES (SOLD SEPARATELY)

#### MOUNTS AND BRACKETS

| SUFFIX | MODEL NUMBER | DESCRIPTION                                   |
|--------|--------------|-----------------------------------------------|
| AM     | MAM-AR-G2    | Arm Mount for G2 Archer Area Light            |
| SF     | MSF-AR-G2    | Slip Fitter for G2 Archer Area Light          |
| TN     | MTN-AR-G2    | Trunnion Mount for G2 Archer Area Light       |
| YA     | MYK-AR-G2A   | Yoke Mount for 100W&150W Archer G2 Area Light |

Field-Installable / Field-Use ONLY (purchased separately)

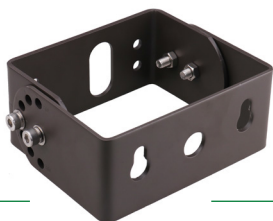
Arm Mount  
MAM-AR-G2



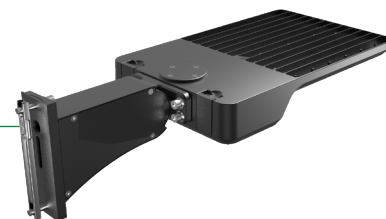
Slip fitter  
MSF-AR-G2



Trunnion Mount  
MTN-AR-G2



Yoke Mount  
MYK-AR-G2A



\* For factory installation of accessory, add suffix to fixture part number (see ordering examples and instructions on last page of spec sheet).

## AR2-150P

150W POWER SELECTABLE LED AREA LIGHT

### ORDER FORMAT

| Series | Wattage                        | CCT      | Voltage          | Optics      | Control*                                | Finish       | Mounting, Lens & Accessories**    | Options         |
|--------|--------------------------------|----------|------------------|-------------|-----------------------------------------|--------------|-----------------------------------|-----------------|
| AR2    |                                |          |                  |             |                                         |              |                                   |                 |
|        | 100P=100W/80W/60W selectable   | 40=4000K | Blank=100-277VAC | T2=Type II  | SQ=Microwave Sensor, HB01DMS            | Blank=Bronze | AM=Arm Mount                      | Blank=Standard  |
|        | 150P=150W/120W/100W selectable | 50=5000K | V =347-480VAC    | T3=Type III | P1=JL-207C, 3-Pin Photocell, 120/277VAC | B=Black      | SF=Slipfitter                     | B=BAA Compliant |
|        | 300P=300W/240W/200W selectable |          |                  | T4=Type IV  | P2=JL-207F, 3-Pin Photocell, 480VAC     | W=White      | TN=Trunnion Mount                 |                 |
|        |                                |          |                  | T5=Type V   | LLLC☆                                   |              | YA=Yoke Mount for 100P&150P model |                 |
|        |                                |          |                  |             | LALC☆                                   |              | YB=Yoke Mount for 300P model      |                 |
|        |                                |          |                  |             |                                         |              | RQ=Remote for Sensor HB01DMS      |                 |
|        |                                |          |                  |             |                                         |              | SHD1=House Shield for 100P/150P   |                 |
|        |                                |          |                  |             |                                         |              | SHD2=House Shield for 300P        |                 |

\*Can be pre-installed. See more details in CONTROL, OPTIONS AND ACCESSORIES sheet.

\*\*Order separately, See more details in CONTROL, OPTIONS AND ACCESSORIES sheet.

☆Contact sales team for more details about LLLC, LALC, options.

### EPA SPECIFICATIONS

- Conditions: Horizontal winds only for calculations. Worst case total projected area used for calculations.
- All drag coefficients are set as worst case 1.2.

| EPA Calcs (1.2*ft <sup>2</sup>   View) |                  | Single Fixture                                                                      | 2 Fixtures at 90°                                                                   | 2 Fixtures at 180°                                                                  | 3 Fixtures at 90°                                                                   | 3 Fixtures at 120°                                                                  | 4 Fixtures at 90°                                                                     | 2 Fixtures Side-by-Side                                                               | 3 Fixtures Side-by-Side                                                               | 4 Fixtures Side-by-Side                                                               |
|----------------------------------------|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Mounting Application                   | Fixture Position |  |  |  |  |  |  |  |  |  |
| AR2-150P                               | Horizontal       | 0.384                                                                               | 0.599                                                                               | 0.776                                                                               | 0.914                                                                               | 0.983                                                                               | 0.914                                                                                 | 0.568                                                                                 | 0.852                                                                                 | 1.137                                                                                 |
|                                        | 45°              | 1.344                                                                               | 1.831                                                                               | 1.344                                                                               | 2.328                                                                               | 3.281                                                                               | 2.328                                                                                 | 2.677                                                                                 | 4.021                                                                                 | 5.365                                                                                 |