



## **ARCHER G2**

Architectural Area Light / Floodlight Combination

## AR2-100-T1

100W Power & CCT Selectable Selectable LED Area Light

### DESCRIPTION

100W Power & CCT Selectable Selectable LED Area Light / 120-277VAC Universal Input (347-480V input optional) / Bronze Housing (custom finish 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 (100W/80W/60W) 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 Listed for wet location, IP65 rated.
- DLC Premium listed, IDA Dark Sky listed(for 3000K model with fixed arm mount).

## PRODUCT SPECIFICATIONS

| Model      | Nominal Wattage | CCT   | T2      |          |        | T3      |          |        | T4      |          |        | T5      |          |        |
|------------|-----------------|-------|---------|----------|--------|---------|----------|--------|---------|----------|--------|---------|----------|--------|
|            |                 |       | Wattage | Efficacy | Lumens | Wattage | Efficacy | Lumens | Wattage | Efficacy | Lumens | Wattage | Efficacy | Lumens |
| AR2-100-T1 | 100W            | 3000K | 98.3    | 140.5    | 13,806 | 104.7   | 127.6    | 13,357 | 100.6   | 136.0    | 13,684 | 101.7   | 137.5    | 13,982 |
|            |                 | 4000K | 98.3    | 151.7    | 14,910 | 101.0   | 149.0    | 15,046 | 100.6   | 146.9    | 14,778 | 101.7   | 148.5    | 15,101 |
|            |                 | 5000K | 98.3    | 148.7    | 14,618 | 101.0   | 146.0    | 14,751 | 100.6   | 144.0    | 14,489 | 101.7   | 145.6    | 14,805 |
|            | 80W             | 3000K | 81.9    | 140.5    | 11,503 | 80.1    | 147.6    | 11,815 | 80.0    | 142.8    | 11,418 | 80.1    | 146.6    | 11,746 |
|            |                 | 4000K | 81.9    | 151.7    | 12,423 | 80.1    | 159.4    | 12,760 | 80.0    | 154.2    | 12,331 | 80.1    | 158.3    | 12,685 |
|            |                 | 5000K | 81.9    | 148.7    | 12,179 | 80.1    | 156.3    | 12,510 | 80.0    | 151.2    | 12,089 | 80.1    | 155.2    | 12,436 |
|            | 60W             | 3000K | 63.1    | 141.2    | 8,918  | 60.4    | 149.2    | 9,007  | 60.3    | 147.1    | 8,869  | 60.6    | 150.9    | 9,140  |
|            |                 | 4000K | 63.1    | 152.5    | 9,631  | 60.4    | 161.1    | 9,728  | 60.3    | 158.9    | 9,579  | 60.6    | 163.0    | 9,871  |
|            |                 | 5000K | 63.1    | 149.5    | 9,442  | 60.4    | 158.0    | 9,537  | 60.3    | 155.8    | 9,391  | 60.6    | 159.8    | 9,678  |

\* All 4000K data are based on in-house IES files. Tested at 120VAC.

\* All the rest data are extrapolated with reasonable factor.

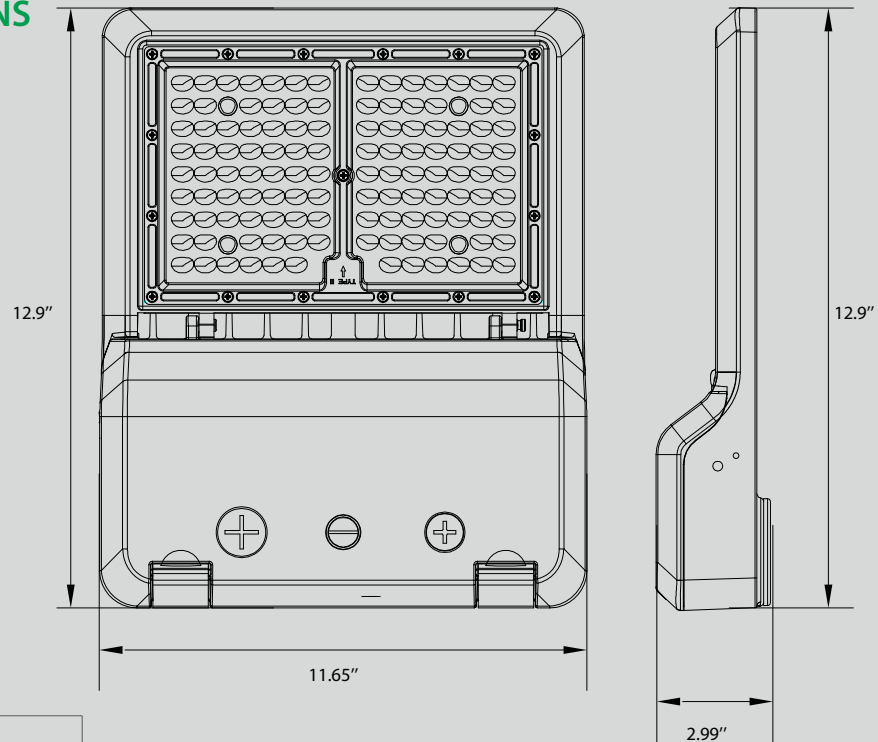
## AR2-100-T1

100W Power & CCT Selectable Selectable LED Area Light

### PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE

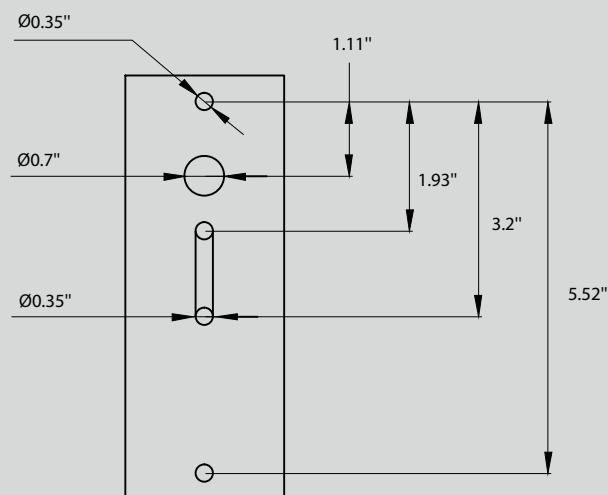
| Model      | Wattage | BUG      | BUG(w/ visor) |
|------------|---------|----------|---------------|
| AR2-100-T1 | 100W    | B3-U3-G3 | B3-U0-G3      |
|            | 80W     | B2-U3-G2 | B3-U0-G3      |
|            | 60W     | B2-U3-G2 | B3-U0-G3      |



### PACKAGING

|                   |                         |
|-------------------|-------------------------|
| Carton Quantity   | 1 piece                 |
| Carton Dimensions | 5.8"H x 12.3"W x 18.3"L |
| Carton Weight     | 7.54 lbs                |

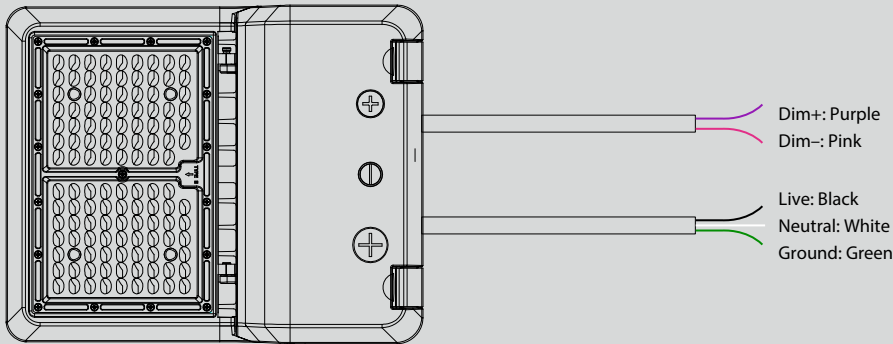
### POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



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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 & CCT 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 & CCT SELECT ADJUSTMENT DIAL

Set switch to adjust wattage and CCT. 300W power and CCT switch shown in the picture.



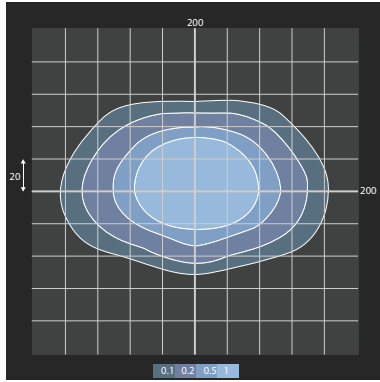
## AR2-100-T1

100W Power & CCT Selectable Selectable LED Area Light

### LIGHT DISTRIBUTION PATTERN

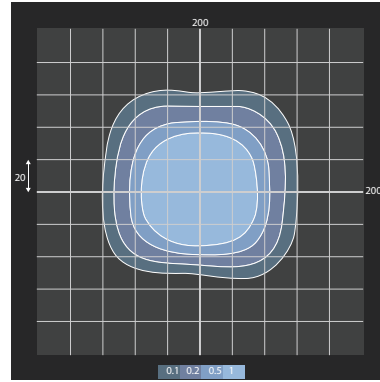
#### TYPE III (T3)

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.



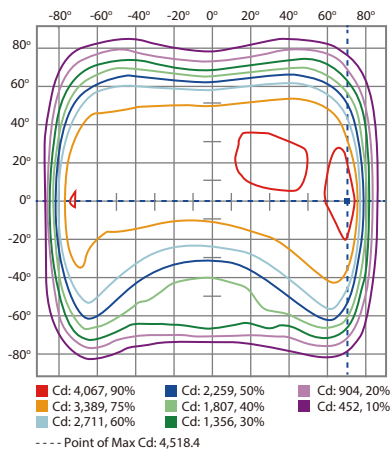
#### TYPE V (T5)

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.

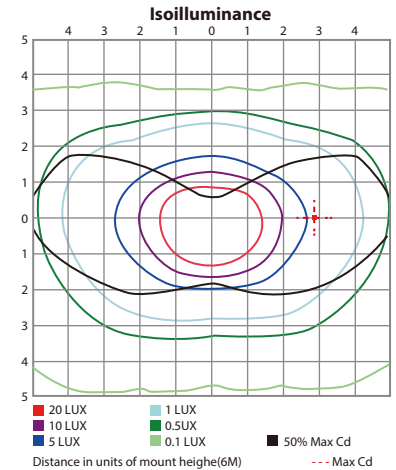
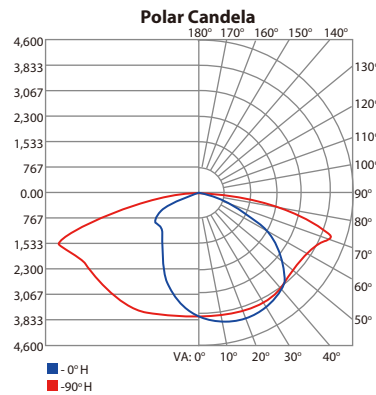


### PHOTOMETRIC SPECS (TYPE III)

#### ISOCANDELA PLOT

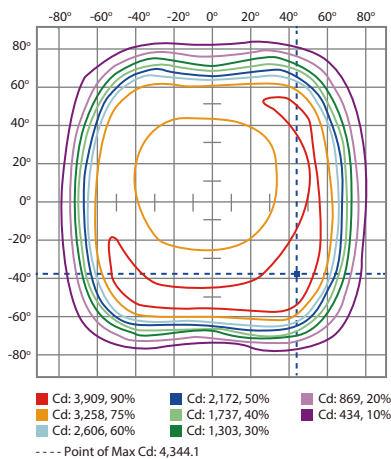


### POLA CANDELA CURVE

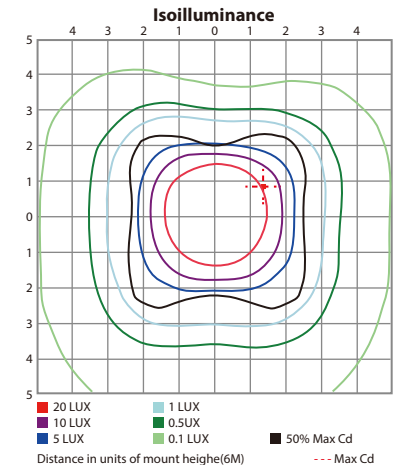
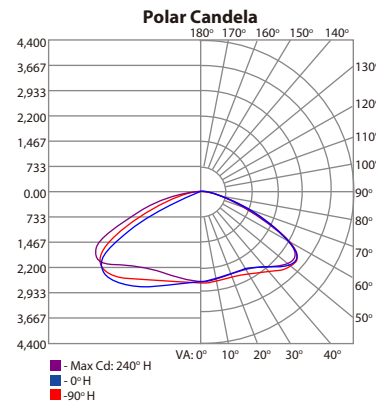


### PHOTOMETRIC SPECS (TYPE V)

#### ISOCANDELA PLOT



### POLA CANDELA CURVE



## AR2-100-T1

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### ACCESSORIES (SOLD SEPARATELY)

#### SENSORS & PHOTOCELLS

| SUFFIX | MODEL NUMBER           | DESCRIPTION                                      |
|--------|------------------------|--------------------------------------------------|
| SQ     | HB01DMS                | Microwave Occupancy Sensor, 12VDC                |
| RQ     | HB03R                  | Remote for HB01DMS and HB03DPR-A                 |
| SR     | HB03DPR-A              | 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     | HD09VR-MHB             | BLE Microwave Sensor, 12VDC                      |
| BQ     | HD09VR-PHB             | BLE PIR Sensor, 12VDC                            |

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

|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|   |   |   |  |   |
| Microwave<br>Occupancy Sensor<br>HB01DMS                                            | Remote<br>HB03R                                                                     | NEMA Type Twist-Lock<br>3-Pin Photocell<br>JL-207C/JL-207F                          | NEMA Type Twist-Lock<br>7-Pin Photocell<br>JL-243C                                   | PIR Occupancy<br>Sensor<br>HB03DPR-A                                                  |
|  |  |  |  |  |
| 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 100W G2 Archer Area Light  |

#### SPD

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

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### 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



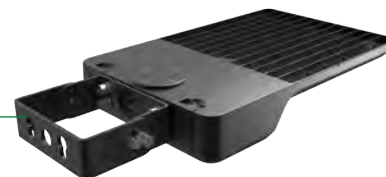
Slip fitter  
MSF-AR-G2



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).

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### ORDER FORMAT

| Series | Wattage                       | CCT                         | Voltage          | Optics      | Control*                       | Finish       | Mounting, Lens & Accessories**    | Options         |
|--------|-------------------------------|-----------------------------|------------------|-------------|--------------------------------|--------------|-----------------------------------|-----------------|
| AR2    |                               |                             |                  |             |                                |              |                                   |                 |
|        | 100=100W/80W/60W selectable   | T1=3000K/4000K/5000K Select | Blank=100-277VAC | T2=Type II  | SQ=Microwave Sensor            | Blank=Bronze | AM=Arm Mount                      | Blank=Standard  |
|        | 150=150W/120W/100W selectable |                             | V=347-480VAC     | T3=Type III | P1=3-Pin Photocell, 120/277VAC | B=Black      | SF=Slipfitter                     | B=BAA Compliant |
|        | 300=300W/240W/200W selectable |                             |                  | T4=Type IV  | P2=3-Pin Photocell, 480VAC     | W=White      | TN=Trunnion Mount                 |                 |
|        |                               |                             |                  | T5=Type V   | LLLC☆                          |              | YA=Yoke Mount for 100W&150W model |                 |
|        |                               |                             |                  |             | LALC☆                          |              | YB=Yoke Mount for 300W model      |                 |
|        |                               |                             |                  |             |                                |              | RQ=Remote for Sensor HB01DMS      |                 |
|        |                               |                             |                  |             |                                |              | SHD1=House Shield for 100W/150W   |                 |
|        |                               |                             |                  |             |                                |              | SHD2=House Shield for 300W        |                 |

\* 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^2   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 |  |  |  |  |  |  |  |  |  |
| AR2-100-T1                  | 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                                                                                 |