

## ARD SERIES ROADWAY

Client:  
Project:  
Type:  
Quantity:

### CONSTRUCTION

Rugged die-cast aluminum housing with hinged, die-cast aluminum door.  
Low profile, 3G vibration rated compact design minimizes wind load requirements.  
Downward opening electrical hinged door completely sealed against moisture and dust.

### OPTICS

UV-resistant polycarbonate optics, available in Type II, III distributions.  
Full cutoff when mounted with 0 degrees tilt with adjustable mounting.  
Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

### ELECTRICAL

70+ CRI Lumileds LED.  
-40°C up to 40°C (-40°F up to 104°F) maximum operating temperature.  
Long-life 50,000 hr LED at L70 @ 25°C.  
Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%.  
50/60Hz, <11% THD, 0.9 power factor.  
Built-in 3-PIN NEMA Twist Lock Receptacle and Photocell Included.  
Optional 347/480V input. Optional 10kV surge protection.

### SENSORS (OPTIONAL)

SENSOR-BLE-619 Integral PIR ALS Control Bluetooth/on/off/dimming/photosensing.  
CONTROL-AVI-ON Bluetooth Mesh Controller.

### MOUNTING

Compatible with mast arm 1-5/8" ~ 2-3/8" OD.

### STANDARD FINISH

Corrosion resistant Silver Gray powder coating finish.

### CERTIFICATION

Wet location label standard.  
Meets Buy America Act requirements.  
All luminaires are built to UL1598 standards and bear appropriate cULus labels.  
DLC® Premium (DesignLights Consortium Qualified).

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



Silver Gray Finish

### SHIPPING DATA

| Product | Measurement       | Weight |
|---------|-------------------|--------|
| ARD-70  | 22"L x 10"W x 5"H | 15 lb  |
| ARD-105 | 22"L x 10"W x 5"H | 15 lb  |
| ARD-150 | 25"L x 12"W x 7"H | 19 lb  |



## ARD SERIES ROADWAY

| ORDER INFORMATION      |                                              |                                 |                                                                                                 | EXAMPLE : ARD 70 40 T3 SG UNVD PT |                          |       |           |
|------------------------|----------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------|-------|-----------|
| Fixture                | Series                                       | Power & LM                      | CCT                                                                                             | Distribution                      | Finish                   | Input | Photocell |
|                        | ARD                                          |                                 |                                                                                                 |                                   | SG                       |       | PT        |
| Accessories<br>Options |                                              |                                 |                                                                                                 |                                   |                          |       |           |
| A                      | SERIES                                       |                                 |                                                                                                 |                                   |                          |       |           |
|                        | ARD                                          | Roadway                         |                                                                                                 |                                   |                          |       |           |
| B                      | POWER & LM                                   |                                 |                                                                                                 |                                   |                          |       |           |
|                        | Code                                         | Power                           | LM                                                                                              |                                   |                          |       |           |
|                        | 70                                           | 70W                             | 9900lm                                                                                          |                                   |                          |       |           |
|                        | 105                                          | 105W                            | 14300lm                                                                                         |                                   |                          |       |           |
|                        | 150                                          | 150W                            | 19600lm                                                                                         |                                   |                          |       |           |
| C                      | CCT                                          |                                 |                                                                                                 |                                   |                          |       |           |
|                        | 30*                                          | 3000K                           |                                                                                                 | 40                                | 4000K                    |       |           |
|                        | 35*                                          | 3500K                           |                                                                                                 | 50                                | 5000K                    |       |           |
|                        | *made to order consult factory for lead time |                                 |                                                                                                 |                                   |                          |       |           |
| D                      | DISTRIBUTION                                 |                                 |                                                                                                 |                                   |                          |       |           |
|                        | T2*                                          | Type II                         |                                                                                                 |                                   |                          |       |           |
|                        | T3                                           | Type III                        |                                                                                                 |                                   |                          |       |           |
|                        | *made to order                               |                                 |                                                                                                 |                                   |                          |       |           |
| E                      | FINISH                                       |                                 |                                                                                                 |                                   |                          |       |           |
|                        | SG                                           | Silver Gray                     |                                                                                                 |                                   |                          |       |           |
| F                      | INPUT                                        |                                 |                                                                                                 |                                   |                          |       |           |
|                        | UNVD                                         | 120-277V, 0-10V Dimming         |                                                                                                 | HVLD                              | 347-480V, 0-10V Dimmable |       |           |
| G                      | PHOTOCCELL                                   |                                 |                                                                                                 |                                   |                          |       |           |
|                        | PT                                           | 3-PIN NEMA Twist Lock Photocell |                                                                                                 |                                   |                          |       |           |
| H                      | ACCESSORIES/OPTIONS                          |                                 |                                                                                                 |                                   |                          |       |           |
|                        | AIA                                          |                                 | Assembled in America, compliant with BAA (COTS)                                                 |                                   |                          |       |           |
|                        | SENSOR-BLE-619-L3 / L4*                      |                                 | Integral PIR Bluetooth Daylight Sensor (ALS Control Mobile App) / L3: up to 40FT, L4: up to 8FT |                                   |                          |       |           |
|                        | SURGE-LSP4-U / H                             |                                 | 10kV inline Surge Protection for Universal input / U: 120-277V, H: 480V input                   |                                   |                          |       |           |
|                        | MOUNT-ARD-ARM-SG                             |                                 | Mounting Arm Kit                                                                                |                                   |                          |       |           |
|                        | CONTROL-LVFA*                                |                                 | AVI-ON Bluetooth Mesh Control System                                                            |                                   |                          |       |           |

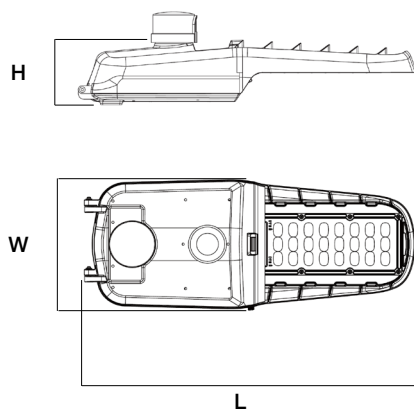
\*see page 5 for sensor spec

## ARD SERIES ROADWAY

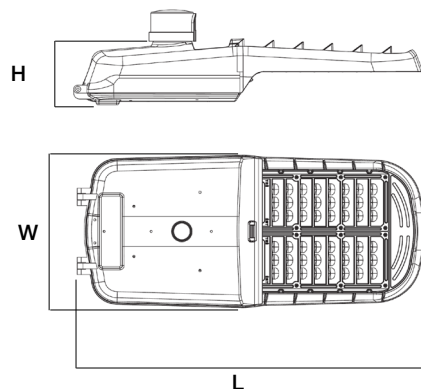
### DIMENSIONS

| Model            | L              | W              | H             |
|------------------|----------------|----------------|---------------|
| ARD-70 / 105     | 20.80" (529mm) | 8.14" (207mm)  | 4.27" (108mm) |
| ARD-150          | 23.84" (606mm) | 10.43" (265mm) | 4.52" (115mm) |
| MOUNT-ARM-ARD-SG | -              | 14.9" (378mm)  | 19.3" (490mm) |

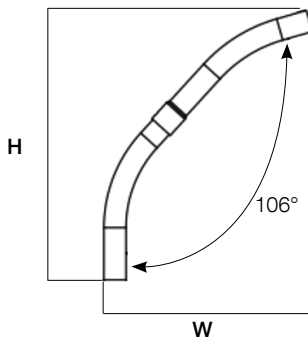
ARD-70  
 ARD-105  
 Single-board layout



ARD-150  
 Dual-board layout

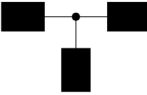
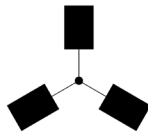
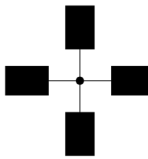


MOUNT-ARD-ARM-SG  
 Mounting Arm Kit



## ARD SERIES ROADWAY

### EPA (ft<sup>2</sup>)

|                 |  |  |  |  |  |  |  |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mounting Option | Single                                                                            | 2 @ 90°                                                                           | 2 @ 120°                                                                          | 2 @ 180°                                                                          | 3 @ 90°                                                                             | 3 @ 120°                                                                            | 4 @ 90°                                                                             |
| 70 / 105        | 0.456                                                                             | 0.775                                                                             | 1.015                                                                             | 0.912                                                                             | 1.231                                                                               | 1.334                                                                               | 1.231                                                                               |
| 150             | 0.471                                                                             | 0.801                                                                             | 1.048                                                                             | 0.942                                                                             | 1.272                                                                               | 1.378                                                                               | 1.272                                                                               |

### PERFORMANCE DATA

| SYSTEM WATTS | 3000K  |     | 3500K  |     | 4000K  |     | 5000K  |     |
|--------------|--------|-----|--------|-----|--------|-----|--------|-----|
|              | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW | LUMENS | LPW |
| 70W          | 9600   | 137 | 9600   | 137 | 9900   | 141 | 9900   | 141 |
| 105W         | 14300  | 136 | 14300  | 136 | 14600  | 139 | 14600  | 139 |
| 150W         | 19500  | 130 | 19600  | 131 | 19800  | 132 | 20000  | 133 |

### DLC CODE

| Part Number                             | DLC Part Number   | DLC Class |
|-----------------------------------------|-------------------|-----------|
| ARD-7040T2-SGUNVD / ARD-7050T2-SGUNVD   | PENDING / PENDING | Premium   |
| ARD-7040T3-SGUNVD / ARD-7050T3-SGUNVD   | PENDING / PENDING | Premium   |
| ARD-10540T2-SGUNVD / ARD-10550T2-SGUNVD | PENDING / PENDING | Premium   |
| ARD-10540T3-SGUNVD / ARD-10550T3-SGUNVD | PENDING / PENDING | Premium   |

## ARD SERIES ROADWAY

### SENSOR SPEC

| Model                                     | Type                  | Mounting                            | Coverage                   | Input     | Function                                       | Programmable                           |
|-------------------------------------------|-----------------------|-------------------------------------|----------------------------|-----------|------------------------------------------------|----------------------------------------|
| SENSOR-PH-PT-U<br>(standard included)     | -                     | -                                   | -                          | Universal | Dusk-to-Dawn Control                           | -                                      |
| CONTROL-LVFA<br>(see page 6 for detail)   | Fixture<br>Controller | -                                   | -                          | 12V DC    | Bluetooth Mesh<br>On/Off/Dimming<br>Scheduling | AVI-ON<br>Bluetooth<br>Mobile App      |
| SENSOR-BLE-619<br>(see page 7 for detail) | PIR                   | <b>L3</b> - 40FT<br><b>L4</b> - 8FT | 30FT radius<br>24FT radius | 12V DC    | Bluetooth Mesh<br>On/Off<br>Daylight           | ALS Control<br>Bluetooth<br>Mobile App |



SENSOR-PH-PT-U/H



CONTROL-LVFA



SENSOR-BLE-619

## CONTROL-LVFA SPEC

### Status LEDs & Config Button

Quick and easy validation of wiring and network

### Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

### Terminal Blocks & Mounting Tabs

Faster, easier and lower cost installation eliminating connectors



### Internal Antenna

Improved performance and eliminates risk of accidentally cutting a hanging wire

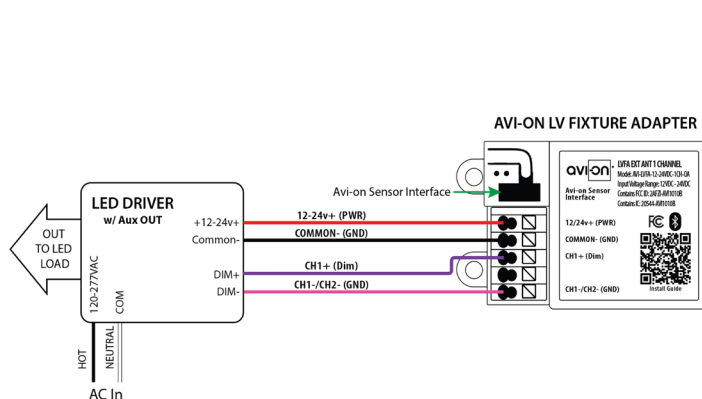
## SPECIFICATIONS

**INPUT VOLTAGE:** 12-24VDC  
**CURRENT:** 15mA without a Sensor  
 19mA with a DC PIR Sensor  
 48mA with a DC Microwave Sensor  
**0-10V DIMMING:** 12-24VDC  
**SIZE:** 2.30in x 1.43in x 0.75in  
 (58.2mm x 36.4mm x 19mm)  
**MOUNTING:** Removable mounting tabs  
**WEIGHT:** 0.45 oz (16g)  
**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

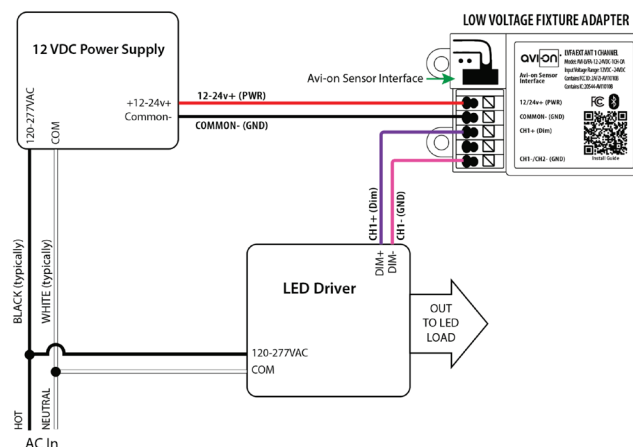
**RADIO FREQUENCY:** 2.4GHz  
**WIRELESS STANDARD:** BLE 4.2 with Mesh  
**POINT TO POINT RANGE\*:** 80ft with obstructions  
 350ft unobstructed  
**SECURITY:** AES 128-bit encryption for device to device communication  
 AES 256-bit encryption for device to cloud communication  
**WARRANTY:** 5 years; 10 years optional  
**REGULATORY:** FCC: 2AFZI-AVI1010 B  
 IC: 20544-AVI1010 B  
 BQB: D031801, DID: 86303  
 UL 916, 2043 (Plenum Rated)

\*When communicating through the mesh, range is essentially unlimited (5000ft+)

## WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

### FEATURE

- **Installation:** Factory Install - Sensor integral to fixture, lens external
- **Commissioning:** Wirelessly through ALS Control Mobile App (iOS / Android)
- **Certification:** DLC 5.1 Networked Lighting Control System
- **Control:** Hold time, High-Low setting, continuous Bi-level dimming, manual/auto - on/off
- **Sensor:** Motion (Occupancy/Vacancy/Manual) and Daylight
- **Zone Control:** Zoning and Grouping control, Scheduling

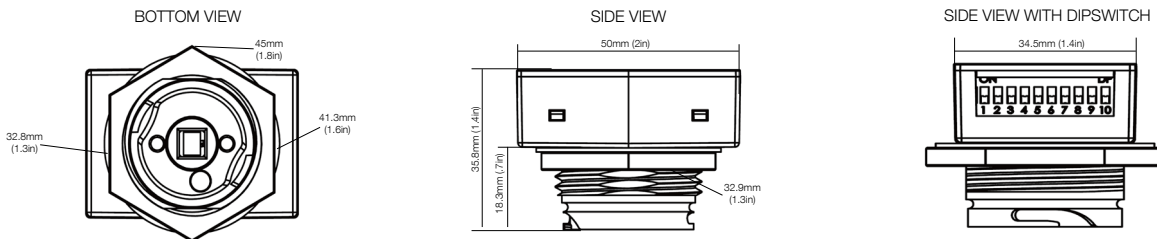


### SPECIFICATIONS

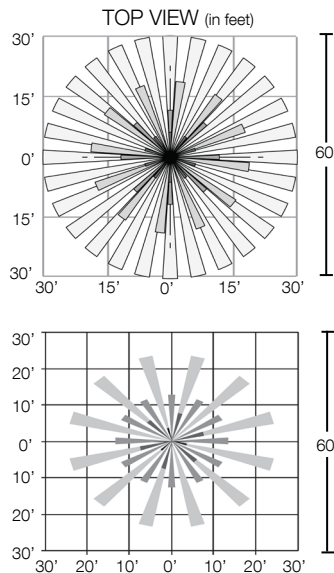
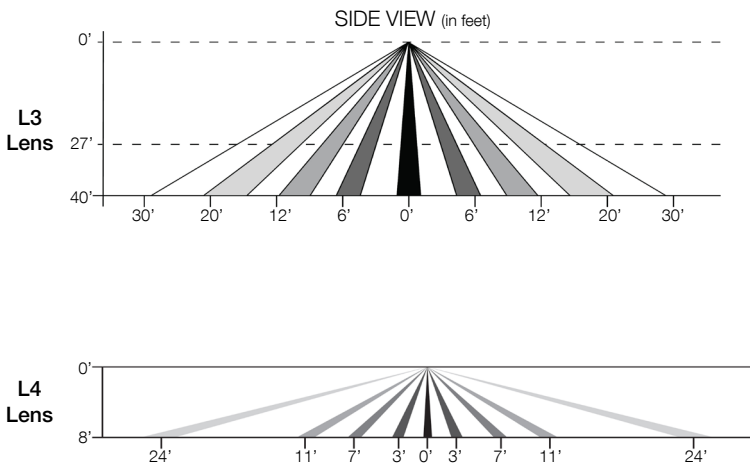
**SENSOR TYPE:** Passive Infrared Sensor (PIR)  
**WIRELESS STANDARDS:** Bluetooth SIG Mesh  
**INPUT VOLTAGE:** 12-24VDC, >50mA  
**CONTROL OUTPUT:** 0-10V  
**OPERATING TEMP:** -40°F ~ +158°F (-40°C ~ +70°C)

**COMMISSIONING RANGE:** 50FT  
**BLUETOOTH RANGE:** Integral antenna up to 100FT  
**DETECTION ANGLE:** Vertical 90° x Horizontal 360°  
**MOUNTING HEIGHT:** 8 - 40FT  
**WARRANTY:** 5 years  
**IP RATING:** IP65

### DIMENSIONS



### COVERAGE PATTERNS



### ORDER CODE

EXAMPLE: SENSOR-BLE-619-L3

#### A SERIES

SENSOR-BLE-619-L Integral PIR ALS Control Bluetooth Sensor 12VDC Input

#### B LENS

| Code | Mounting | Coverage    |
|------|----------|-------------|
| 3    | 40FT     | 30FT Radius |
| 4    | 8FT      | 24FT Radius |