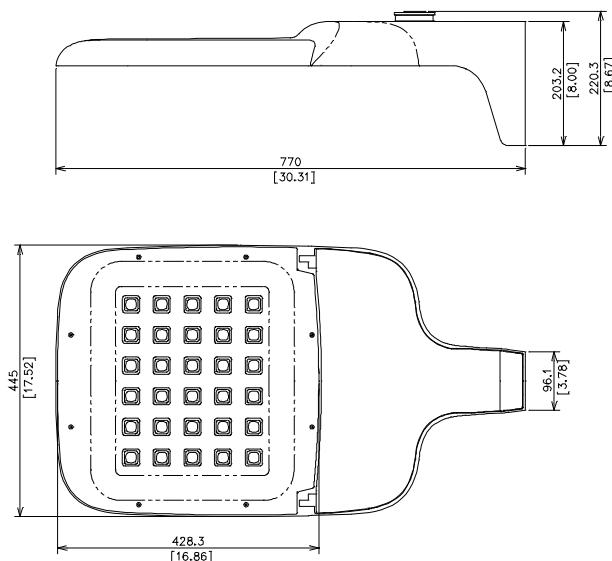


ARIETA™18 LED Area Luminaire

AR18

Luminaire Data

Weight 24 lbs [10.9 kg]
EPA 0.55 ft²



Ordering Information

Sample Catalog No. AR18 20M MV NW 3 DB 700 HSS

Product	LED No. & Type	Voltage	Nominal Color Temperature ¹	Distribution	Finish ²	Drive Current ³	Options
AR18	6M 10M 15M 18M 20M 24M 30M	MV 120-277V HV 347-480V	NW 4000K CW 5000K	2 Type 2 3 Type 3 4 Type 4 5 Type 5	BK Black DB Dark Bronze WH White	350 350mA 530 530mA 700 700mA	BSK Bird Spider Kit RPA Round Pole Adaptor HSS ⁴ House Side Shield FDC ⁵ Fixed Drive Current PCR NEMA Photocontrol Receptacle PCR5 ANSI 5-wire Photocontrol Receptacle PCR7 ANSI 7-wire Photocontrol Receptacle SC PCR Shorting Cap MSL7 ⁶ Motion Sensor with L7 Lens MSL3 ⁶ Motion Sensor with L3 Lens FSIR100 Motion Sensor Configuration Tool PPS ⁷ Programmable Power Supply ORR Optics Rotated Right ORL Optics Rotated Left WL Utility Wattage Label

Notes:

- 1 4000K AND 5000K standard, consult factory for other color temperatures.
- 2 Black, Dark Bronze or White standard, consult factory for other finishes.
- 3 Factory set drive current, field adjustable standard. Refer to performance data on page 3.
- 4 Flush mounted shield factory installed, also available for field installation. House Side Shield cuts light off at 1/2 mounting height behind luminaire.
- 5 Non-field adjustable drive current. Specify 350mA, 530mA or 700mA setting.
- 6 Motion Sensor available with MV only. Motion Sensor default setting dims luminaire to 50% when no motion detected for 5 minutes. Field adjustable using FSIR100 for alternate settings. See L7 or L3 Lens coverage details on page 4. Consult factory for MS specified with ANSI 5-wire or 7-wire Photocontrol Receptacle. Luminaire warranty is limited to 5 years with a Motion Sensor. PCR option is required for On/Off control using light detection.
- 7 Consult factory for programming.

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Luminaire Specifications

Housing

Die cast aluminum housing with universal mounting design allows for attachment to existing pole without redrilling for retrofit applications. Square pole mounting standard, round pole adapter option available. Meets 3G vibration per ANSI C136. All hardware is stainless steel. Electrical components are accessed without tools and are mounted on removable power door. Power door features quick electrical disconnects to terminal block and LED board.

Light Emitting Diodes

Hi-flux/Hi-power white LEDs produce a minimum of 95% of initial intensity at 100,000 hours of life. LEDs are tested in accordance with IES LM-80 testing procedures. Mean correlated color temperature of 4000K (standard) and 70 minimum CRI. LEDs are 100% mercury and lead free.

Optical Systems

Micro-lens systems produce IES Type 2, Type 3, Type 4 or Type 5 distributions. Luminaire produces 0% total lumens above 90° (BUG Rating, U=0).

Electrical

Power Supply drive current is field adjustable (350mA, 530mA or 700mA). Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Transient voltage complies with ANSI C62.41 Cat. A. Integral surge protector is tested per ANSI/IEEE C62.45 procedures based on ANSI/IEEE C62.41.2 definitions for standard and optional waveforms for Location Category C High. Photocontrol receptacle is standard, ANSI C136.41 5-wire (PCR5) or 7-wire (PCR7) dimming receptacle optional. Standard and optional photocontrol receptacles have tool-less rotatable base. Photocontrol or control module is provided by others.

Finish

Housing receives a fade and abrasion resistant, epoxy polyester powder coat.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. Optical systems maintain an IP66 rating. Design Lights Consortium qualified 4000K product. Wattage label complies to ANSI C136.15-2011. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry

Luminaires are photometrically tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty

10-year Limited Warranty is standard on luminaire and components.

Performance Data

See next page

ARIETA™18 LED Area Luminaire

AR18

Performance Data

All data nominal, consult factory for IES files or LM-79 reports.

			Type 5		
No. of LEDs & Type	Drive Current (mA)	System Wattage (W)	Delivered Lumens (Lm)	Efficacy (Lm/W)	BUG Rating
6M	350	25	2670	107	B2 U0 G0
	530	37	3690	100	B2 U0 G1
	700	49	4610	94	B2 U0 G1
10M	350	41	4460	109	B2 U0 G1
	530	62	6150	99	B3 U0 G1
	700	82	7690	94	B3 U0 G1
15M	350	66	6980	106	B3 U0 G1
	530	97	9680	100	B3 U0 G2
	700	128	12020	94	B4 U0 G2
18M	350	74	8020	108	B3 U0 G1
	530	112	11070	99	B3 U0 G2
	700	148	13830	93	B4 U0 G2
20M	350	82	8910	109	B3 U0 G2
	530	124	12300	99	B4 U0 G2
	700	164	15370	94	B4 U0 G2
24M	350	99	10700	108	B3 U0 G2
	530	149	14760	99	B4 U0 G2
	700	197	18445	94	B4 U0 G2
30M	350	123	13370	109	B4 U0 G2
	530	186	18450	99	B4 U0 G2
	700	246	23060	94	B4 U0 G2

ARIETA™18 LED Area Luminaire AR18

Motion Sensor (Optional) Specifications

Description

Digital passive infrared luminaire integrated outdoor occupancy sensor provides high/low/off control based on motion detection. Initial setup and subsequent sensor adjustments are made using a handheld configuration tool. PCR option is required for On/Off control using light detection.

Operation

Standard factory setting will dim the luminaire to 50% until motion is sensed and then it will power to 100%. When motion is not detected for five minutes, the luminaire will dim back to 50%. Ramp up and fade down times are adjustable, but initially set to NONE. The percent dimming and time durations may be field adjusted as required using FSIR-100 configuration tool. FSIR-100 user guide available at: www.wattstopper.com.

Optical System

Multi-cell, multi-tier Fresnel lens with a 360 degree view detects unobstructed motion within one mounting height, up to 20ft maximum (standard). Consult factory for higher mounting height requirements.

Finish

Sensor exterior ring and lens are white polycarbonate, UV and impact resistant.

Listings/Ratings

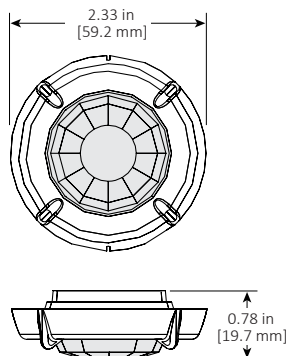
Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

Warranty

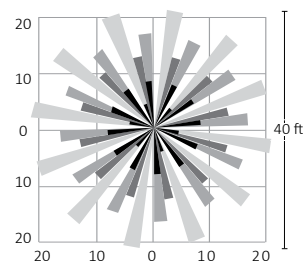
5-year limited warranty on luminaires and components with a motion sensor.

Motion Sensor (Optional) Data

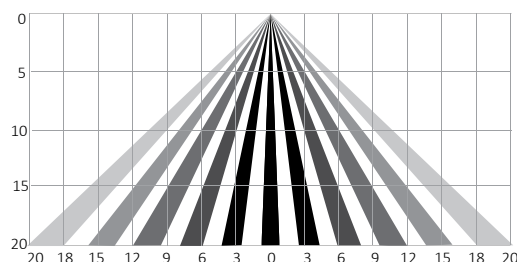
L3 Lens Dimensions



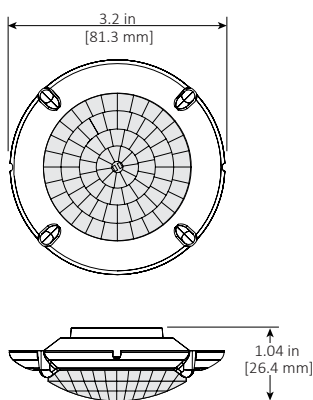
L3 Lens Coverage Top View



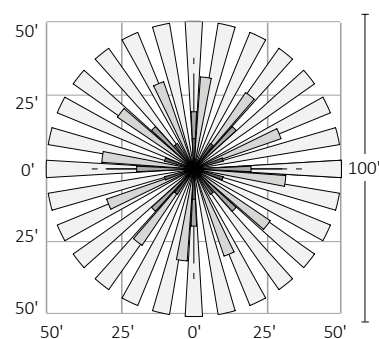
L3 Lens Coverage Side View



L7 Lens Dimensions



L7 Lens Coverage Top View



L7 Lens Coverage Side View

