



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.

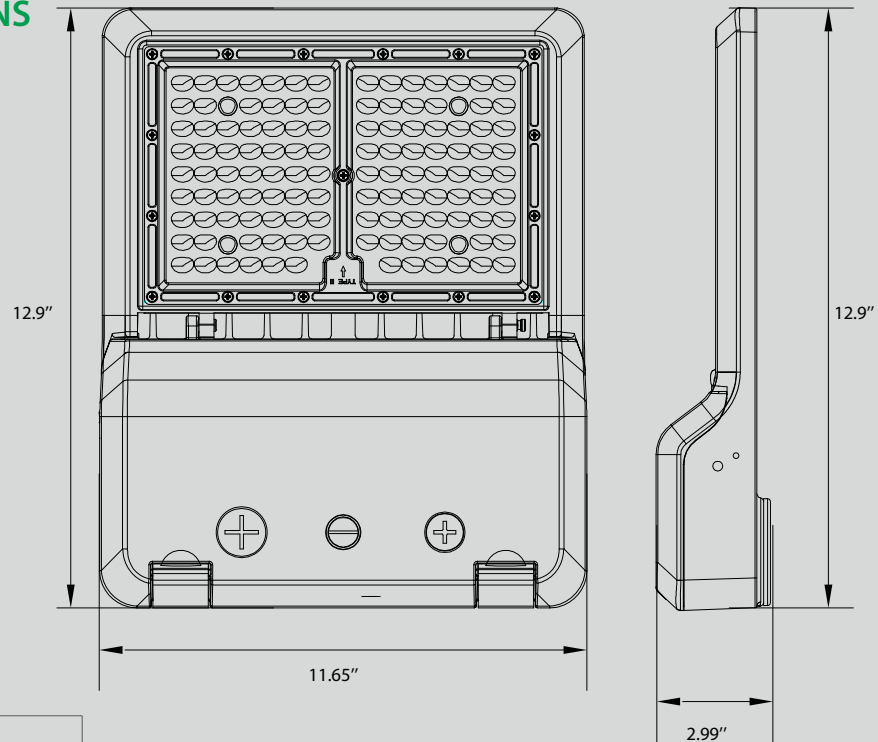
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100W Power & CCT Selectable Selectable LED Area Light

PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE

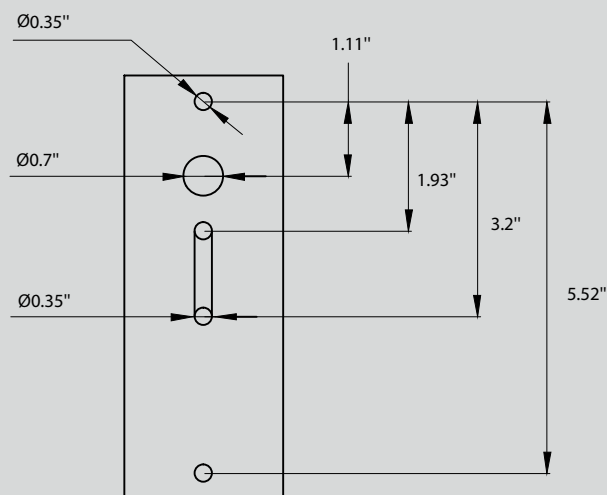
Model	Wattage	BUG	BUG(w/ visor)
AR2-100-T1	100W	B3-U3-G3	B3-U0-G3
	80W	B2-U3-G2	B3-U0-G3
	60W	B2-U3-G2	B3-U0-G3



PACKAGING

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

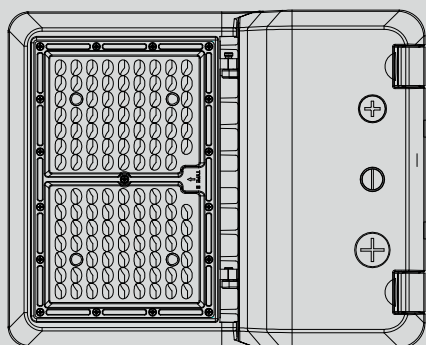
POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



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WIRING DIAGRAM



Dim+: Purple
Dim-: Pink

Live: Black
Neutral: White
Ground: Green

- 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.



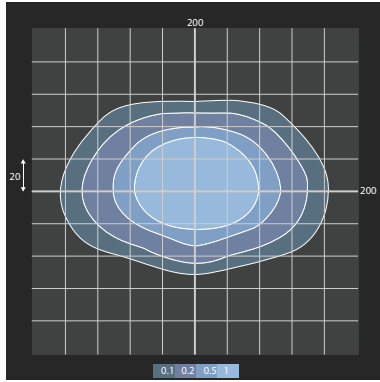
AR2-100-T1

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LIGHT DISTRIBUTION PATTERN

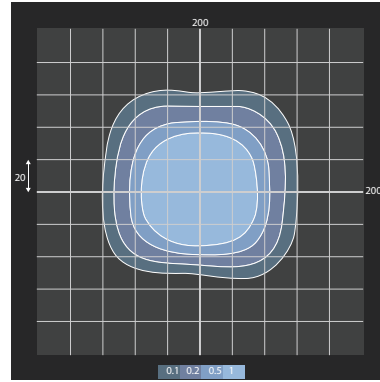
TYPE III (T3)

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.



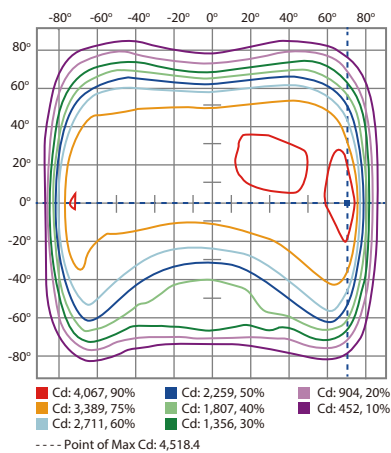
TYPE V (T5)

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.

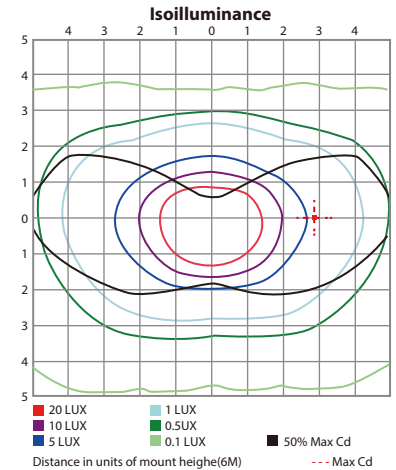
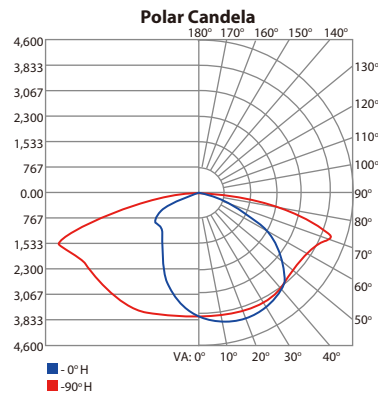


PHOTOMETRIC SPECS (TYPE III)

ISOCANDELA PLOT

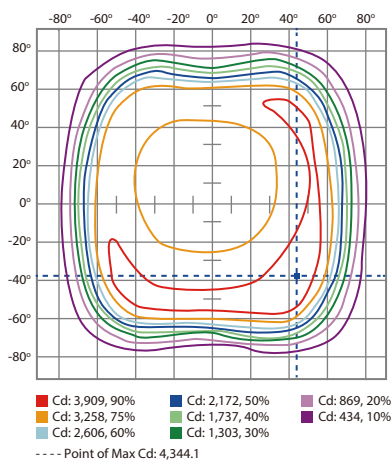


POLA CANDELA CURVE

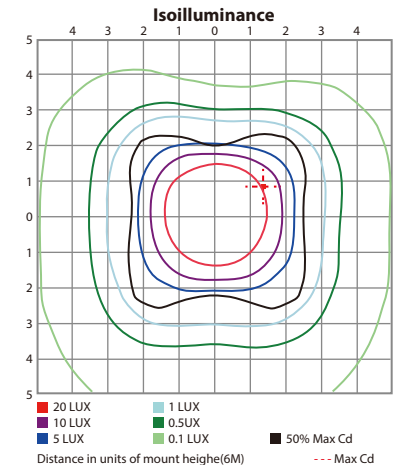
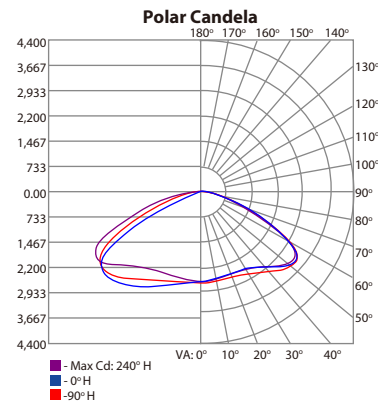


PHOTOMETRIC SPECS (TYPE V)

ISOCANDELA PLOT



POLA CANDELA CURVE



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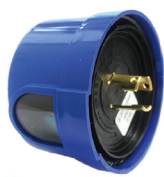
100W Power & CCT Selectable Selectable LED Area Light

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 Occupancy Sensor HB01DMS	Remote HB03R	NEMA Type Twist-Lock 3-Pin Photocell JL-207C/JL-207F	NEMA Type Twist-Lock 7-Pin Photocell JL-243C	PIR Occupancy Sensor HB03DPR-A
				
Bi-Level PIR Occupancy Sensor PSC-BL-I-FM-DC-BLE-SR	PIR Occupancy Sensor PSC-ZKV-I-100-BLE-SR	0-10V MESH Controller PSC-ZKV-WCM-100-BLE-SR	HD09VR-MHB	HD09VR-PH & 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



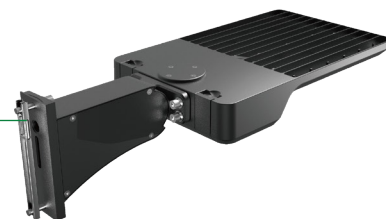
Slip fitter
MSF-AR-G2



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