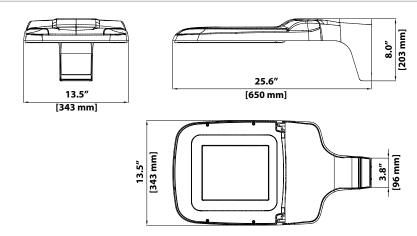
Project Type

Catalog No.

ARIETA® 13 ComfortGuide™ Pedestrian & Site Luminaire AR13 CG1/CG2 Specification Data Sheet

Luminaire Data

Weight 15.4 lbs [7 kg] **EPA** 0.47 ft²



Ordering Information

Sample Catalog No. AR13-CG2-N-MV-27K-T2-DB-040-PCR7

Product	LED Code	V	/oltage	_	ninal Color nperature	Dis	tribution		Finish ¹	Out	put Co	de ²		Options
AR13-CG1 AR13-CG2	N	MV HV	120-277V 347-480V	27K 30K	2700K 3000K	T2 T3	Type 2 Type 3	ВК	Black		CG1		FOC ³ PCR7 ⁴	Fixed Output Code ANSI 7-wire Photocontrol
ANI3-CGZ		пv	347-46UV	40K	4000K	T5	Type 5	DB	Dark	27K	30K	40K	PCK/	Receptacle
								DB1	Bronze (RAL6022) Dark Bronze	035 040 050	035 045 055	035 045 055	Photocontrol F MSL3 ⁶ Motion Sensor	Control Ready 7-wire Photocontrol Receptacle Motion Sensor with L3 Lens Motion Sensor with L7 Lens
									(RAL8019)		CG2		SP2 ⁷	20kV/10kA Surge Protector
								WH	White	27K	30K	40K	PND1 ⁸ PND2 ⁸	Part-Night Dimming Part-Night Dimming
								GY	Gray	070 080 090	075 085 100	075 090 100	PND3 ⁸ WL CF ¹¹	Part-Night Dimming Utility Wattage Label Coastal Paint Finish
								NA	Natural Aluminum	110	115	120		

- 1 Black, Dark Bronze, White, Gray, or Natural Aluminum standard. DB (RAL6022) is our original dark bronze. DB1 (RAL8019) is a new dark bronze option. Consult factory for other finishes. See page 2 for specifications.
- 2 Specified output code is the factory set lumen performance. Refer to performance data table on page 3 of this spec sheet. Field adjustable current selector enables fixture to be changed in the field to adjust light output for local conditions (not available with Fixed Output Code (FOC) or PCR7-CR option). Consult factory if wattage limits require a special drive current.
- 3 No field adjustable output. Specified output code set at the factory.
- 4 Includes current selector that enables field adjustability of light levels. Includes connectors to allow easy upgrade of wireless dimming via PCR7. Wireless node by others.
- 5 Control-ready wired at factory for wireless node dimming. Output selector not included in fixture. Not able to adjust above specified drive current.
- 6 See L7 or L3 Lens coverage details on page 4. Consult factory for MS specified with ANSI 7-wire Photocontrol Receptacle. PCR7 option is required for On/Off control using light detection.
- 7 Standard surge protection, 10kV/5kA, fail-to-on, meets enhanced surge protection based on ANSI 136.25-2015 3-part test.
- 8 For PND profile options see page 5. Only available with MV (120-277V).
- 9 Specify Color (GY, DB, DB1, BK, WH, NA)
- 10 Specify MV (120-277V) or HV (347V-480V)
- 11 Specify the CF Option for coastal installation. See warranty for details.

	Accessories*
RPA ⁹	Round Pole Adapter
PTF1 ⁹	Square Pole Top Fitter Single
PTF2 ⁹	Square Pole Top Fitter Twin at 180°
PTF4 ⁹	Square Pole Top Fitter Quad
WM ⁹	Wall Mount
BSK	Bird Deterrent Spider Kit
LLPC ¹⁰	Long-Life Twist Lock Photocontrol
sc	Twist Lock Shorting Cap
FSIR100	Motion Sensor Configuration Tool

^{*}Accessories are ordered separately and not to be included in the catalog number





ARIETA® 13 ComfortGuide™ Pedestrian & Site Luminaire AR13 CG1/CG2 Specification Data Sheet

Luminaire Specifications

Housing

Die cast aluminum housing with universal mounting design allows for attachment to existing pole without redrilling for retrofit applications. Aluminum housing provides passive heatsinking of the LEDs and has upper surfaces that shed precipitation. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass. Electrical components are accessed without tools and are mounted on removable power door.

Light Emitting Diodes

LEDs produce nominal 85% of initial intensity at 60,000 hours of life per IES recommended lumen maintenance life projection based on 6 times the duration of the collected LM-80 data. For details on IESNA position on LED Product Lifetime Prediction, refer to PS-10-18. LEDs have correlated color temperature of 2700K (27K), 3000K (30K), 4000K (40K), and 70 CRI minimum. LEDs are ROHS compliant, 100% mercury and lead free.

Field Adjustability

LED lumen output can be changed in the field to adjust for local conditions (not available with PCR7-CR option). The specified output code will be the factory set output. Field adjustments can be made with the output selector included in the fixture. Field adjustable range shown in performance data table.

Quality Control

Every luminaire is performance tested before and after a 2-hour burn-in period.

Optical Systems

ComfortGuide's patented light panel is fully sealed (IP66 rated) and designed to create large uniform source luminance that provides less contrast between the light source and the dark sky background. The combination of uniform source luminance and lower contrast greatly reduces glare, improves visual comfort, and enhances the user experience.

Electrical

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Terminal block accommodates 6 to 14 gauge wire. Standard surge protection complies with IEEE/ANSI C62.41 and ANSI C136.2-2015, Enhanced (10kV/5kA). SP2 option provides Extreme level (20kV/10kA).

Controls

ANSI C136.41 7-wire (PCR7) photocontrol receptacle is available. Photocontrol receptacle has a tool-less rotatable base. Wireless control module is provided by others.

Finish

Housing receives a fade and abrasion resistant polyester powder coat finish with 3.0 mil nominal thickness. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 B117 and Coastal Finish per ASTM G85. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ Premium Classification qualified product. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C.

Photometry

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

Warranty

5-year limited warranty is standard on luminaire and components. 5-year limited warranty on luminaires and components with a motion sensor. See Leotek.com for warranty details

Vandal Resistance

Housing and optics rated to IK09

Standards

Luminaire complies with: ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77

Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449,

UL 1598

Color Specifications

Order Code	Color	RAL#	Pantone Equivalent	
GY	Gray	7040	429C	
ВК	Black	9004	426C	
DB	Dark Bronze	6022	BLACK 2C	
DB1	Dark Bronze	8019	412	
WH	White	9003	11-0601	
NA	Natural Aluminum	9006	N/A	



ARIETA® 13 ComfortGuide™ Pedestrian & Site Luminaire AR13 CG1/CG2 Specification Data Sheet

Performance Data 2700K (27K)

All data nominal. IES files are available at leotek.com.

LED Code	Output Code	Delivered Lumens (Lm) ¹	System Wattage (W)	Efficacy (Lm/W)	Drive Current (mA)	Field Adjustable Output Range ²
	035³	3400	30	113	370	↑
AR13-CG1	040	4200	37	114	450	
	050	5300	45	118	580	\
	070	7000	59	119	770	↑
4040.000	080	8200	69	119	900	
AR13-CG2	090	9400	81	116	1050	
	110	11100	97	114	1250	\

Performance Data 3000K (30K)

All data nominal. IES files are available at leotek.com.

LED Code	Output Code	Delivered Lumens (Lm) ¹	System Wattage (W)	Efficacy (Lm/W)	Drive Current (mA)	Field Adjustable Output Range ²			
	035³	3600	30	120	370	†			
AR13-CG1	045	4400	37	119	450				
	055	5600	46	122	580	.			
	075	7400	60	123	760	1			
AR13-CG2	085	8600	69	125	910				
AN13-CGZ	100	9800	80	123	1050				
	115	11700	97	121	1250	\			

Performance Data 4000K (40K)

All data nominal. IES files are available at leotek.com.

LED Code	Output Code	Delivered Lumens (Lm) ¹	System Wattage (W)	Efficacy (Lm/W)	Drive Current (mA)	Field Adjustable Output Range ²
	035³	3600	29	124	360	1
AR13-CG1	045	4500	36	125	440	
	055	5600	45	124	570	\
	075	7500	60	125	760	↑
AD42 CC2	090	8800	69	128	890	
AR13-CG2	100	10000	80	125	1040	
	120	12000	97	124	1270	\

Notes:

- 1 Normal tolerance ± 10% due to factors including distribution type, LED bin variance, driver variance, and ambient temperatures.
- 2 Performance codes available in two ranges for adjustable output as shown in preformance data tables. Output set at factory to specified performance code.
- 3 DLC approved at 120V and 240V.



ARIETA® 13 ComfortGuide™ Pedestrian & Site Luminaire AR13 CG1 Specification Data Sheet

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. Available with both MV and HV input voltage options.

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 20 ft. maximum (MSL3) or 40 ft. maximum (MSL7). Consult factory for higher mounting height requirements.

Finish

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

Listings/Ratings

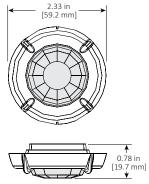
Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

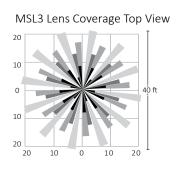
Warranty

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

Motion Sensor (Optional) Data

MSL3 Lens Dimensions

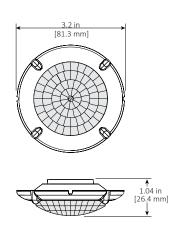


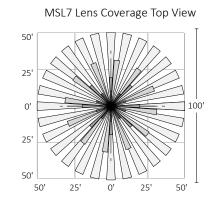


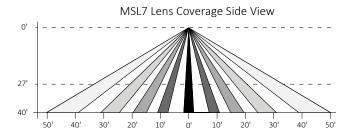
MSL3 Lens Coverage Side View

0
5
10
12
20 18 15 12 9 6 3 0 3 6 9 12 15 18 2

MSL7 Lens Dimensions









ARIETA® 13 ComfortGuide™ Pedestrian & Site Luminaire AR13 CG1 Specification Data Sheet

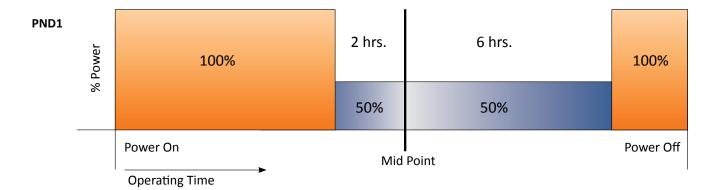
Part-Night Dimming Specifications

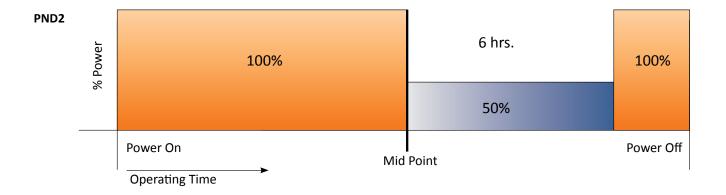
Description

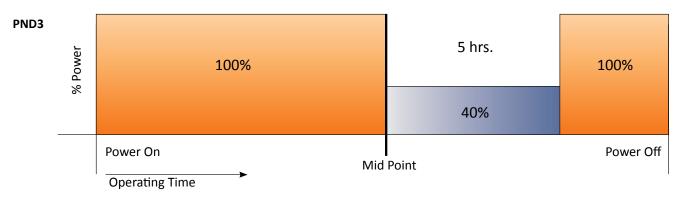
Arieta's Part-Night Dimming (PND) option enables significant energy savings by automatically dimming the luminaire during early morning hours when infrequent use is expected. Factory programmed dimming profiles automatically take into account seasonal changes based on geographical location by continuously monitoring the nighttime midpoint. PND does not provide power on/off control which is provided by external controls (example: time clock) or a photocontrol using PCR3 or PCR7 option. Dimming profile of PND option is not field adjustable.

Operation

Based on the PND profile that is selected, the luminaire dims to the corresponding % power for the corresponding length of time (based on the nighttime mid-point) as shown below. Mid-point is continuously recalculated in the luminaire by monitoring the average length of time between when the light turns on (power on) and turns off (power off) over the previous two days. In effect, this functionality will take two days to initialize after installation before any dimming will occur. Power interruptions are ignored and do not affect the determination of mid-point. A motion sensor (MSL3 or MSL7) can be used with PND to temporarily override the dimming profile when motion is detected. Three factory programmed PND profiles are available for selection:



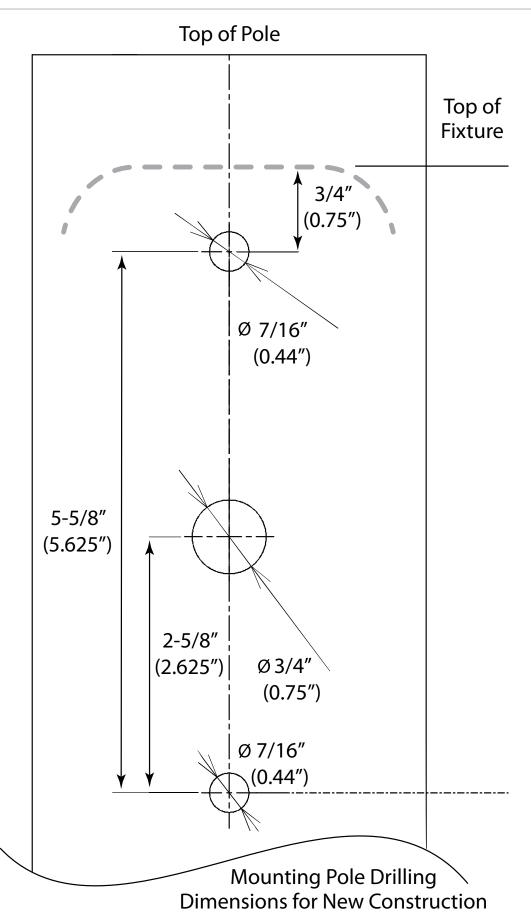




ARIETA® 13 ComfortGuide™ Pedestrian & Site Luminaire AR13 CG1 Specification Data Sheet

Pole Mount Drilling Dimensions for New Construction

For more details, consult the Arieta Instllation Guide



If printing this page to be used as a drilling template, for best results update printer settings from: "Fit to Page" to "Actual Size".