

50% when compared to HID systems.

Site & Area

Form 10 LED

Round arm mount

Gardco Form 10 LED round arm mount luminaires are cutoff area luminaires featuring LED arrays. These products provide performance excellence and feature advanced Gardco LED thermal management technology. High performance Class 1 LED systems offer the potential for energy savings up to



Project:	
Location:	
Cat.No:	
Туре:	
Lamps:	Qty:
Notes:	

example: CA17L-32L-450-NW-G2-AR1-2-120-BK

Ordering guide

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting ¹	Distr.²	Voltage	Controls	Electrical	Luminaire	Finish							
CA17L 17" Cylindrical Luminaire LED MA17L 17" Semi-	32L 32 LEDs	450 450mA 900 900mA	NW-G2 Neutral White 4000K, 70CRI Generation 2 WW-G2	Arm Mounts AR1 for 3"-4.5" round pole ¹ AR2	2 Type 2 3 Type 3 4	120 120V 208 208V 240	DD 0-10V Dimming Driver Photoelectric/ Receptacle	Fusing F1 Single (120, 277, 347VAC) ³ F2 Double (208, 240, 480VAC) ³	HIS Internal House Side Shield ⁶	BRA Bronze Anodized BLA Black Anodized NA							
Spherical Luminaire LED	48L 48 LEDs	700 700mA	Warm White 3000K, 70CRI Generation 2	for 4.5"+ round pole ¹	Type 4 5 Type 5	240V 277 277V	Receptacle) TLRD5 Twist Lock Receptacle 5 Pin ^{4.5}	F3 Canadian Double Pull (208, 240, 480VAC) ³ Pole Mount Fusing		Natural Anodized BK Black paint							
CA22L 22" Cylindrical Luminaire LED	48L 48 LEDs	900 900mA	Cool White 5700K, 70CRI Generation 2	for square pole ¹ Wall Mount WM1		347 347V 480		FP1 Single (120, 277, 347VAC) ³		BZ Bronze paint WH							
MA22L 22" Semi- Spherical Luminaire LED	96L 96 LEDs	560 560mA 650 650mA		with arm ¹ WM2 without arm ¹ Mast Arm			480V UNV 120-277V 50hz/60hz	UNV 120-277V 50hz/60hz	480V UNV 120-277V 50hz/60hz	480V UNV 120-277V 50hz/60hz	480V UNV 120-277V	480V UNV 120-277V	480V UNV 120-277V	TLRPC Twist Lock Receptacle with Photocell ^{34,5}	FP2 Double (208, 240, 480VAC) ³ FP3 Canadian Double Pull (208, 240, 480VAC) ³ Surge Protection		White paint MGY Medium Gray paint Customer specified
				Fitter MA Mounts to a 2-3/8° O.D. mast arm ¹⁵		HVU 347-480V 50hz/60hz		SP1 Standard 10KVA SP2 Increased 20KVA		RAL Specify optional color (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)							

Retrofit kit ordering guide

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distr. ²	Voltage	-	Controls	Electrical
CA/MA17L-RK 17" Cylindrical or Semi- Spherical Retrofit Kit	32L 32 LEDs	450 450mA 900 900mA	NW-G2 Neutral White 4000K, 70CRI Generation 2 WW-G2	2 Type 2 3 Type 3 4	120 120V 208 208V 240	347 347V 480 480V UNV	DD 0-10V Dimming Driver	Surge Protection SP1 Standard 10KVA SP2 Increased 20KVA
CA/MA22L-RK 22" Cylindrical or Semi- Spherical Retrofit Kit	48L 48 LEDs 96L	900 900mA 560	Warm White 3000K, 70CRI Generation 2 CW-G2 Cool White	m White OK, 70CRI eration 2 -G2	240V 277 277V	120-277V 50hz/60hz HVU 347-480V		
	96 LEDs	560mA	Cool White 5700K, 70CRI Generation 2			50hz/60hz		

1. Shipped as a separate accessory.

2. Types 2,3, and 4 optics are field rotatable; Type 5 optics feature unitized lens.

3. Must specify input voltage.

4. Works with 3-pin or 5-pin NEMA

photocell/dimming device. 5. Not offered with MA17L or MA22L.

6. Not available in Type 5.



Site & Area - Round Arm Mount

Accessories (order separately)

Pole top fitters (one per pole):

luminaires at 90°. Requires AR1.

Dimensions and EPA

PTF2-(F)

Pole top fitter fits 2 3/8-2 1/2" OD x 4" depth tenon with 1, 2, 3 or 4

PTF3-(F)

Pole top fitter fits 3-3 1/2" OD x 6" depth tenon with 1, 2, 3 or 4 luminaires at 90°. Requires AR2.

PTF4-(F)

Pole top fitter fits 3 1/2-4" OD x 6" depth tenon with 1, 2, 3 or 4 luminaires at 90°. Requires AR2.

(F) Specify finish





CA style

Size	A	в	с	D				Weight Single
MA17	17" 43.18 cm	11" 27.94 cm	5″ 12.70 cm	5″ 12.70 cm			2.3ft ² .21m ²	
MA22	22″ 55.88 cm	14" 35.56 cm	7" 17.78 cm	5″ 12.70 cm	1.3ft ² .12 m ²	2.7ft ² .25m ²	3.7ft ² .34 m ²	40 lbs. 18.14 kg

Size	A	в	с	D				Weight Single
CA17	17" 43.18 cm	8″ 20.32cm	5″ 12.70 cm	5" 12.70 cm			2.1ft ² .20 m ²	
CA22	22″ 55.88 cm	11″ 27.94 cm	7" 17.78 cm	5″ 12.70 cm	1.2ft ² .11m ²	2.3ft ² .21m ²	3.3ft ² .31m ²	42lbs. 19.05kg

LED Wattage and Lumen Values Form 10 CA/MA17L & CA/MA22L

		Ave		Type 2			Type 3			Type 4			Type 5			
Order Code	LED Qty	System Current (mA)	Color Temp (K)	System Watts ¹ (W)	Lumen Output ^{2,3}	BUG Rating	Efficacy (lm/W)									
CA17L-32L-450-NW-G2-x	32	450	4000	47	5256	B1-U0-G1	111	5037	B1-U0-G1	106	5203	B1-U0-G1	110	5141	B3-U0-G1	108
CA17L-32L-900-NW-G2-x	32	900	4000	96	9331	B2-U0-G2	98	8942	B2-U0-G2	93	9236	B2-U0-G2	97	9126	B4-U0-G2	95
CA17L-48L-700-NW-G2-x	48	700	4000	110	11448	B2-U0-G2	104	10971	B2-U0-G2	100	11332	B2-U0-G2	103	11197	B4-U0-G2	102
MA17L-32L-450-NW-G2-x	32	450	4000	47	5256	B1-U0-G1	111	5037	B1-U0-G1	106	5203	B1-U0-G1	110	5141	B3-U0-G1	108
MA17L-32L-900-NW-G2-x	32	900	4000	96	9331	B2-U0-G2	98	8942	B2-U0-G2	93	9236	B2-U0-G2	97	9126	B4-U0-G2	95
MA17L-48L-700-NW-G2-x	48	700	4000	110	11448	B2-U0-G2	104	10971	B2-U0-G2	100	11332	B2-U0-G2	103	11197	B4-U0-G2	102
CA22L-48L-900-NW-G2-x	48	900	4000	144	14334	B3-U0-G2	100	13840	B2-U0-G2	96	14008	B2-U0-G2	97	14269	B4-U0-G2	99
CA22L-96L-560-NW-G2-x	96	560	4000	171	19274	B3-U0-G2	113	18610	B3-U0-G3	109	18836	B3-U0-G3	110	19187	B5-U0-G3	112
CA22L-96L-650-NW-G2-x	96	650	4000	199	21852	B3-U0-G3	110	21099	B3-U0-G3	106	21355	B3-U0-G3	108	21753	B5-U0-G3	110
MA22L-48L-900-NW-G2-x	48	900	4000	144	14334	B3-U0-G2	100	13840	B2-U0-G2	96	14008	B2-U0-G2	97	14269	B4-U0-G2	99
MA22L-96L-560-NW-G2-x	96	560	4000	171	19274	B3-U0-G2	113	18610	B3-U0-G3	109	18836	B3-U0-G3	110	19187	B5-U0-G3	112
MA22L-96L-650-NW-G2-x	96	650	4000	199	21852	B3-U0-G3	110	21099	B3-U0-G3	106	21355	B3-U0-G3	108	21753	B5-U0-G3	110

1. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown

is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.

2. Values shown are for luminaires without the DL options. Contact outdoorlighting applications@signify.com if any

approximate estimates are required for design purposes.

3. Lumen values based on tests performed in compliance with IESNA LM-79.

Site & Area - Round Arm Mount

Specifications

General Description

The Gardco Form 10 LED round products are cutoff luminaires featuring LED arrays. Form 10 LED round luminaires provide performance excellence and advanced Gardco LED thermal management technology. High performance Class 1 LED systems offer the potential for energy savings up to 50 % when compared to HID systems. Housings are one-piece seamless spun aluminum and finished with either Architectural Class 1 anodizing , electrostatically applied TGIC polyester powdercoat or polyurethane. Luminaires provide full cutoff performance.

Housing

Housing is one piece, .100" (.25cm) seamless aluminum with integral rolled circumferential reveal and lower section aperture incorporating a returned flange stiffener to protect against housing edge deformation.

Arm

Extruded aluminum arm is secured to prewired fixture by contractor. Assembly is suitable for mounting to pole without requiring access to luminaire. Internal extruded channels capture tie rods for proper luminaire to pole alignment.

Lens

One piece, diecast aluminum door frame retains the optically clear, heat and impact resistant tempered flat glass, in a sealed manner using hollow section, high compliance, memory retentive extruded silicone rubber. Concealed stainless steel hinge and two (2) fasteners secure lens assembly to luminaire.

Thermal Management

Form 10 LED round luminaires utilize extruded aluminum integral thermal radiation fins to provide the excellent thermal management so critical to long LED system life.

LED Optical System

LED arrays are set to achieve IES Type II, Type III, Type IV and Type V distributions. Individual LED arrays are replaceable. Optical systems are field rotatable. Luminaires feature high performance Class 1 LED systems.

Predicted Lumen Depreciation Data

Ambient	System	LED	Calculated	L ₇₀ per	Lumen Maintenance
Temperature °C	Current	Current	L ₇₀ hrs ^{1,2}	TM21 ^{2,3}	@ 60,000hrs
25 °C	900 mA	900 mA	>100,000	>60,000	98%

1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.

2. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.

3. Calculated per IESNA TM 21-11. Published L70 hours limited to 6 times actual LED test hours.

Electrical

Luminaires include a complete prewired LED driver assembly, provided as part of the optical assembly. Luminaires include an LED driver that accepts 120V through 277V, or 347V through 480V, 50hz to 60hz, input. Driver output is based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 302°F / 150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. Power factor is not less than 90%. Luminaires consume 0.0 watts in the off state. Surge protector 10KA standard per ANSI/IEEE C62.41.2 or 20KA optional.

Finish

Anodized housings are created with an Aluminum Association Architectural Class I anodizing process to achieve a bronze, black or natural aluminum finish. Painted units are finished with hardcoat, fade resistant, electrostatically applied TGIC polyester powdercoat or polyurethane.

Labels

UL/cUL listed to the UL 1598 standard, suitable for Wet Locations. Suitable for use in ambients from -40° to 40°C (-40° to 104°F). The quality systems of this facility have been registered by UL to the ISO 9001 series standards. Most Form 10 configurations are DesignLights Consortium® qualified. Consult DLC Qualified Products list for more details.

Limited Warranty

5 year limited warranty. See signify.com/ outdoorluminaires for complete details and exclusions.

Signify

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