

**PHILIPS**



Site & Area

Form Ten LED

C & M round series



# Classic Styles with the **benefits of LED**

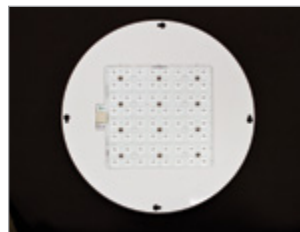
The Philips Gardco Form Ten LED round area luminaires are a natural complement to their rectilinear counterparts. Architecturally, the series lends itself to an extensive variety of building motifs, permitting the designer to choose to draw attention to the luminaire or to have it gracefully fade into the surroundings. By incorporating state-of-the-art, high performance LEDs, these luminaires provide the classic shapes desired today together with the energy saving advantages of LED.



**Construction:** The housing is a one-piece spun aluminum design with a rolled reveal that improves structural and aesthetic integrity. Architectural Class 1 anodizing or polyester powdercoat finishes are available.



**Clean Material Transitions:** The yoke of the post top models echo the shape of the luminaire and seamlessly transitions into the housing. All hardware is recessed and hidden from normal viewing angles.



**Rotatable Optics:** The LED optic pan is fully field rotatable, enabling distribution and pole orientation to be completely independent of one another. It also allows for reorientation of the optical system should site requirements change.



# Classic forms embrace a contemporary source

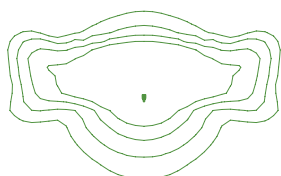
Available in both the 17" and 22" sizes, the Form Ten Round LED luminaires are offered in two styles - the domed top "M" series and the cylindrical "C" series. Both models preserve the features and benefits that make them industry leaders in site illumination. A one-piece, die cast aluminum door frame contains a heat and impact resistant glass lens and is fully gasketed with memory-retentive, hollow core silicone rubber. The lens and optical pan hinges down by loosening a captive stainless steel screw. The driver assembly is prewired with quick disconnects and simply dismounts for service or replacement.

## Form Ten Round LED revolves around high performance

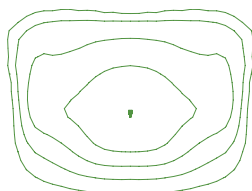
Where Philips Gardco luminaires ultimately stand out is in optical performance. The Form Ten Round luminaires make use of an advanced high output Class 1 LED array system providing one of four distinctive distribution patterns. This system presents improved light output and a longer lifespan than standard HID sources while consuming a small percentage of the energy. Enhanced visibility and greater efficiency means that fewer luminaires are required to light areas to preferred levels, producing considerable savings and reducing the environmental impact both in the short and long term.

**These LED systems use up to 50% less energy than traditional outdoor lighting systems and generally lower energy expenses by up to 40% in comparison to most systems being used today.**

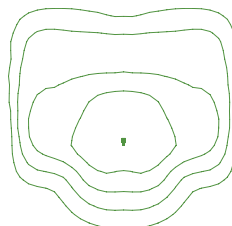
Philips Gardco's Applications Engineering Department is ready to assist you with site lighting examination and development.



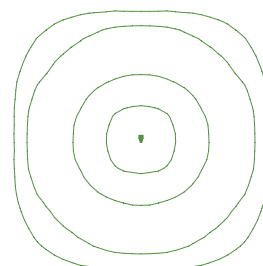
Type II Distribution



Type III Distribution



Type IV Distribution



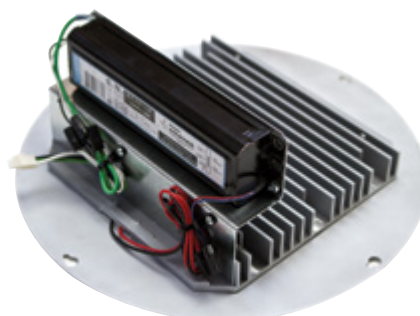
Type V Distribution

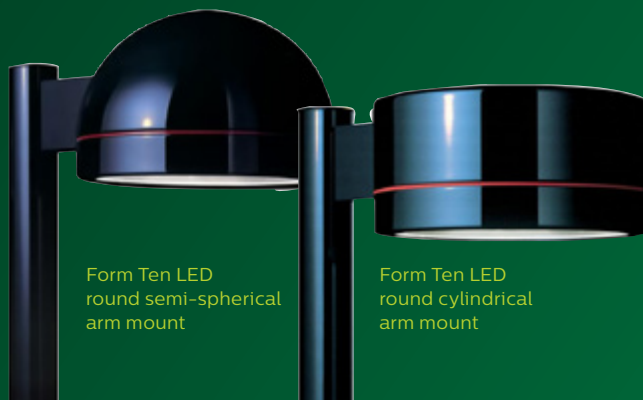
### Retrofit Kits

#### Do you currently have Form Ten Round luminaires on your site?

Retrofit Kits are an easy way to supply your existing luminaires with high performance LED arrays. These kits permit a simple and efficient changeout, saving time, cost and energy.

The kits include everything required to completely convert the standard Form Ten Round to any of the offered LED wattages and distributions. This includes a new reflector pan outfitted with LED arrays and integral driver(s).





Form Ten LED  
round semi-spherical  
arm mount

Form Ten LED  
round cylindrical  
arm mount

## Form Ten LED round arm mount

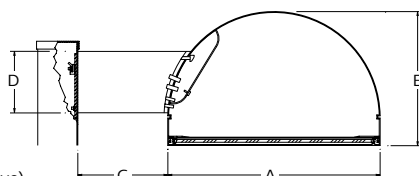
- Available in both the 17" and 22" sizes.
- Offered in domed top "M" series and cylindrical "C" series.
- Provides up to 40% energy savings over HID.
- Maintains uniform illumination for improved visibility.
- LED retrofit kits available for existing Form 10 installs.
- Toolless access to driver compartment and optical chamber.

### Ordering guide

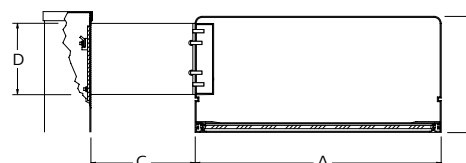
example: CA17L-32L-450-NW-G2-AR1-2-120-DD-F1-HIS-BK

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distr.	Voltage	Controls	Electrical	Luminaire	Finish
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>CA17L</b> 17" Cylindrical Luminaire LED	<b>32L</b> 32 LEDs	<b>450</b> 450mA	<b>NW-G2</b> Neutral White 4000K, 70CRI Generation 2	<b>Arm mounts</b> <b>AR1</b> for 3"-4.5" round pole	<b>2</b> Type 2	<b>120</b> 120V	<b>DD</b> 0-10V Dimming Driver	<b>Fusing</b> <b>F1</b> Single (120, 277, 347VAC)	<b>HIS</b> Internal House Side Shield	<b>BRA</b> Bronze Anodized
<b>MA17L</b> 17" Semi-Spherical Luminaire LED	<b>48L</b> 48 LEDs	<b>700</b> 700mA	<b>WW-G2</b> Warm White 3000K, 70CRI Generation 2	<b>AR2</b> for 4.5"+ round pole	<b>3</b> Type 3	<b>208</b> 208V	<b>Photoelectric/ Receptacle Systems</b> (Twist Lock Receptacle)	<b>F2</b> Double (208, 240, 480VAC)		<b>BLA</b> Black Anodized
<b>CA22L</b> 22" Cylindrical Luminaire LED	<b>48L</b> 48 LEDs	<b>900</b> 900mA	<b>CW-G2</b> Cool White 5700K, 70CRI Generation 2	<b>AR3</b> for square pole	<b>4</b> Type 4	<b>240</b> 240V	<b>TLRD5</b> Twist Lock Receptacle 5 Pin	<b>F3</b> Canadian Double Pull (208, 240, 480VAC)		<b>NA</b> Natural Anodized
<b>MA22L</b> 22" Semi-Spherical Luminaire LED	<b>96L</b> 96 LEDs	<b>560</b> 560mA		<b>Wall mount</b> <b>WM1</b> with arm	<b>5</b> Type 5	<b>277</b> 277V	<b>TLRPC</b> Twist Lock Receptacle with Photocell	<b>Pole Mount Fusing</b> <b>FP1</b> Single (120, 277, 347VAC)		<b>BK</b> Black paint
		<b>650</b> 650mA		<b>WM2</b> without arm		<b>347</b> 347V		<b>FP2</b> Double (208, 240, 480VAC)		<b>BZ</b> Bronze paint
				<b>Mast Arm Fitter</b> <b>MA</b> Mounts to a 2-3/8" O.D. mast arm		<b>480</b> 480V		<b>FP3</b> Canadian Double Pull (208, 240, 480VAC)		<b>WH</b> White paint
						<b>UNV</b> 120-277V 50hz/60hz		<b>Surge Protection</b> <b>SP1</b> Standard 10KVA <b>SP2</b> Increased 20KVA		<b>MGY</b> Medium Gray paint
						<b>HVU</b> 347-480V 50hz/60hz				<b>Customer specified</b>
										<b>RAL</b> (ex: RAL7024) Specify optional color
										<b>CC</b> Custom color (Must supply color chip for required factory quote)

### Dimensions and EPA



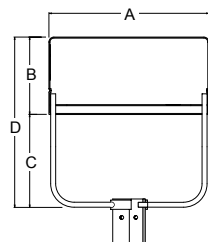
MA style (above)



CA style (above)

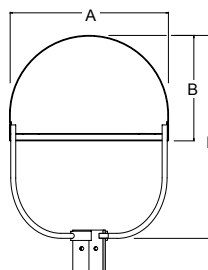
Size	A	B	C	D	EPA			Weight Single
					Single	Twin	Quad	
MA17	17" 43.2cm	11" 27.9cm	5" 12.7cm	5" 12.7cm	.8ft <sup>2</sup> .07m <sup>2</sup>	1.6ft <sup>2</sup> .15m <sup>2</sup>	2.3ft <sup>2</sup> .21m <sup>2</sup>	27lbs. 12.25kg
MA22	22" 55.9cm	14" 35.6cm	7" 17.8cm	5" 12.7cm	1.3ft <sup>2</sup> .12m <sup>2</sup>	2.7ft <sup>2</sup> .25m <sup>2</sup>	3.7ft <sup>2</sup> .34m <sup>2</sup>	40lbs. 18.14kg

Size	A	B	C	D	EPA			Weight Single
					Single	Twin	Quad	
CA17	17" 43.2cm	8" 20.3cm	5" 12.7cm	5" 12.7cm	.7ft <sup>2</sup> .07m <sup>2</sup>	1.5ft <sup>2</sup> .14m <sup>2</sup>	2.1ft <sup>2</sup> .20m <sup>2</sup>	27lbs. 12.25kg
CA22	22" 55.9cm	11" 27.9cm	7" 17.8cm	5" 12.7cm	1.2ft <sup>2</sup> .11m <sup>2</sup>	2.3ft <sup>2</sup> .21m <sup>2</sup>	3.3ft <sup>2</sup> .31m <sup>2</sup>	42lbs. 19.05kg



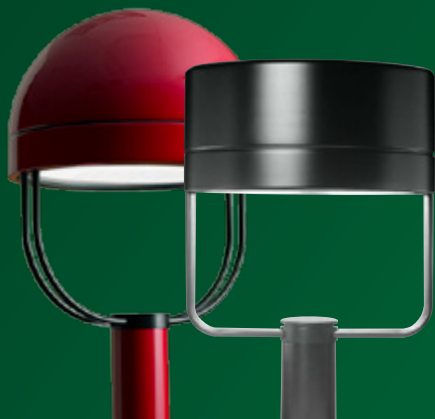
CP style (next page)

Size	A	B	C	D	EPA Single	Weight Single
CP17	17" 43.2cm	8" 20.3cm	10" 25.4cm	18" 45.3cm	.7ft <sup>2</sup> .07m <sup>2</sup>	31lbs. 14.06kg
CP22	22" 55.9cm	11" 27.9cm	11" 27.9cm	22" 55.9cm	1.0ft <sup>2</sup> .09m <sup>2</sup>	50lbs. 22.68kg



MP style (next page)

Size	A	B	C	D	EPA Single	Weight Single
MP17	17" 43.2cm	11" 27.9cm	10" 25.4cm	21" 53.3cm	.7ft <sup>2</sup> .07m <sup>2</sup>	31lbs. 14.06kg
MP22	22" 55.9cm	14" 35.6cm	11" 27.9cm	25" 63.5cm	1.0ft <sup>2</sup> .09m <sup>2</sup>	50lbs. 22.68kg



Form Ten LED Round Semi-Spherical and Cylindrical post top

## Form Ten LED round post top

- Available in both the 17" and 22" sizes.
- Offered in domed top "M" series and cylindrical "C" series.
- Provides up to 40% energy savings over HID.
- Maintains uniform illumination for improved visibility.
- LED retrofit kits available for existing Form 10 installs.
- Toolless access to driver compartment and optical chamber.

### Ordering guide

example: CP17L-32L-450-NW-G2-P11-2-120-DD-F1-HIS-BK

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distr.	Voltage	Controls	Electrical	Luminaire	Finish
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>CP17L</b> 17" Cylindrical Luminaire LED	<b>32L</b> 32 LEDs	<b>450</b> 450mA	<b>NW-G2</b> Neutral White 4000K, 70CRI Generation 2	<b>P11</b>	<b>2</b>	<b>120</b> 120V	<b>DD</b> 0-10V Dimming Driver	<b>Fusing</b> <b>F1</b> Single (120, 277, 347VAC)	<b>HIS</b> Internal House Side Shield	<b>BRA</b> Bronze Anodized <b>BLA</b> Black Anodized <b>NA</b> Natural Anodized <b>BK</b> Black paint <b>BZ</b> Bronze paint <b>WH</b> White paint <b>MGY</b> Medium Gray paint <b>Customer specified</b> <b>RAL</b> (ex: RAL7024) Specify optional color <b>CC</b> Custom color (Must supply color chip for required factory quote)
<b>MP17L</b> 17" Semi-Spherical Luminaire LED	<b>48L</b> 48 LEDs	<b>900</b> 900mA	<b>WW-G2</b> Warm White 3000K, 70CRI Generation 2	<b>P21</b>	<b>3</b>	<b>208</b> 208V	<b>Photoelectric/ Receptacle Systems</b> (Twist Lock Receptacle)	<b>F2</b> Double (208, 240, 480VAC)		
			<b>CW-G2</b> Cool White 5700K, 70CRI Generation 2	<b>P31</b>	<b>4</b>	<b>240</b> 240V	<b>TLRD5</b> Twist Lock Receptacle 5 Pin	<b>F3</b> Canadian Double Pull (208, 240, 480VAC)		
				<b>P32</b>	<b>5</b>	<b>277</b> 277V	<b>TLRPC</b> Twist Lock Receptacle with Photocell	<b>Pole Mount Fusing</b> <b>FP1</b> Single (120, 277, 347VAC)		
<b>CP22L</b> 22" Cylindrical Luminaire LED	<b>48L</b> 48 LEDs	<b>900</b> 900mA		<b>P41</b>		<b>347</b> 347V		<b>FP2</b> Double (208, 240, 480VAC)		
<b>MP22L</b> 22" Semi-Spherical Luminaire LED	<b>96L</b> 96 LEDs	<b>560</b> 560mA		<b>P42</b>		<b>480</b> 480V		<b>FP3</b> Canadian Double Pull (208, 240, 480VAC)		
				<b>P43</b>		<b>UNV</b> 120-277V 50hz/60hz		<b>Surge Protection</b> <b>SP1</b> Standard 10KVA <b>SP2</b> Increased 20KVA		
				<b>T14</b>		<b>HVU</b> 347-480V 50hz/60hz				
				<b>T15</b>						
				<b>T16</b>						
				<b>T24</b>						
				<b>T25</b>						
				<b>T26</b>						
				<b>T34</b>						
				<b>T35</b>						
				<b>T36</b>						
				<b>T37</b>						
				<b>T44</b>						
				<b>T45</b>						
				<b>T46</b>						
				<b>T47</b>						

### Retrofit kit ordering guide

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distr.	Voltage	Controls	Electrical
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>CA/MA17L-RK</b> or <b>CP/MP17L-RK</b> 17" Cylindrical or Semi-Spherical Retrofit Kits	<b>32L</b> 32 LEDs	<b>450</b> 450mA	<b>NW-G2</b> Neutral White 4000K, 70CRI Generation 2	<b>2</b> Type 2	<b>120</b> 120V	<b>DD</b> 0-10V Dimming Driver	<b>Surge Protection</b> <b>SP1</b> Standard 10KVA <b>SP2</b> Increased 20KVA
		<b>900</b> 900mA	<b>WW-G2</b> Warm White 3000K, 70CRI Generation 2	<b>3</b> Type 3	<b>208</b> 208V		
			<b>CW-G2</b> Cool White 5700K, 70CRI Generation 2	<b>4</b> Type 4	<b>240</b> 240V		
<b>CA/MA22L-RK</b> or <b>CP/MP22L-RK</b> 22" Cylindrical or Semi-Spherical Retrofit Kit	<b>48L</b> 48 LEDs	<b>900</b> 900mA		<b>5</b> Type 5	<b>277</b> 277V		
	<b>96L</b> 96 LEDs	<b>560</b> 560mA			<b>UNV</b> 120-277V 50hz/60hz		
					<b>HVU</b> 347-480V 50hz/60hz		



Prior to ordering, consult specification sheets on [www.philips.com/luminaires](http://www.philips.com/luminaires) for the most current information, notes, and exclusions.

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