



Gardco Form 10 LED round post top luminaires are cutoff 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 50% when compared to HID systems.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

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

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting ⁷	Distr. ²	Voltage	Controls	Electrical	Luminaire	Finish
CP17L 17" Cylindrical Luminaire LED	32L 32 LEDs	450 450mA	NW-G2 Neutral White 4000K, 70CRI Generation 2	-- (yoke fitter for 4" round pole standard) ¹	2 Type 2	120 120V	DD 0-10V Dimming Driver	Fusing F1 Single (120, 277, 347VAC) ³ F2 Double (208, 240, 480VAC) ³ F3 Canadian Double Pull (208, 240, 480VAC) ³	HIS Internal House Side Shield ⁵	BRA Bronze Anodized BLA Black Anodized NA Natural Anodized BK Black paint BZ Bronze paint WH White paint MGY Medium Gray paint Customer specified
MP17L 17" Semi-Spherical Luminaire LED	48L 48 LEDs	700 700mA	WW-G2 Warm White 3000K, 70CRI Generation 2 CW-G2 Cool White 5700K, 70CRI Generation 2							
CP22L 22" Cylindrical Luminaire LED	48L 48 LEDs	900 900mA		-- (yoke fitter for 5" round pole standard) ¹	4 Type 4	240 240V	TLRD5 Twist Lock Receptacle 5 Pin ^{4,5}	Pole Mount Fusing FP1 Single (120, 277, 347VAC) ³ FP2 Double (208, 240, 480VAC) ³ FP3 Canadian Double Pull (208, 240, 480VAC) ³		WH White paint MGY Medium Gray paint Customer specified
MP22L 22" Semi-Spherical Luminaire LED	96L 96 LEDs	560 560mA								
				Adapter required for 2-3/8" OD tenon, 3" OD tenon, and 3" OD pole. See accessories.				Surge Protection 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
CP/MP17L-RK 17" Cylindrical or Semi-Spherical Retrofit Kit	32L 32 LEDs	450 450mA	NW-G2 Neutral White 4000K, 70CRI Generation 2	2 Type 2	120 347 120V 347V	DD 0-10V Dimming Driver	Surge Protection SP1 Standard 10KVA SP2 Increased 20KVA
	48L 48 LEDs	900 900mA	WW-G2 Warm White 3000K, 70CRI Generation 2				
CP/MP22L-RK 22" Cylindrical or Semi-Spherical Retrofit Kit	48L 48 LEDs	900 900mA		4 Type 4	240 UNV 240V 120-277V 277 HVU 277V 347-480V 50hz/60hz		
	96L 96 LEDs	560 560mA					

Tenon Adapter Accessories (ordered separately, field installed)

CP22L and MP22L

912400229485
2-3/8" OD Tenon
KIT ADPTR CONV. 4 TO 2-3/8

912400200296
3" OD Tenon/3" OD Pole
CONVERSION KIT 3IN OD TO 4IN OD

CP17L and MP17L

N/A

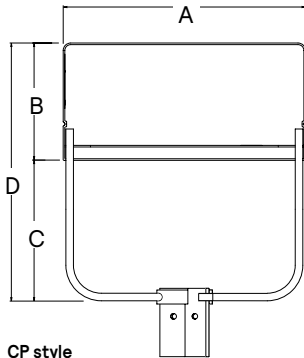
- See compatibility matrix for all pole and tenon mounting options.
- Types 2,3, and 4 optics are field rotatable; Type 5 optics feature unitized lens.
- Must specify input voltage.
- Works with 3-pin or 5-pin NEMA photocell/dimming device.
- Not offered with MP17L or MP22L.
- Not available in Type 5.
- Consult Signify to confirm whether specific accessories are BAA-compliant.



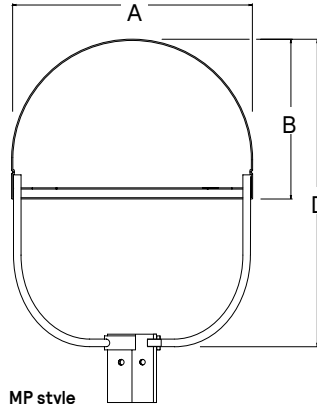
CP/MP17L & CP/MP22L Form 10 LED luminaires

Site & Area – Round Post Top

Dimensions and EPA



CP style



MP style

Mounting illustrations

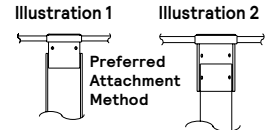


Illustration 1
Preferred Attachment Method
Yoke fitter slides into pole

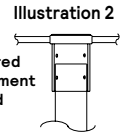


Illustration 2
Yoke fitter slides over pole

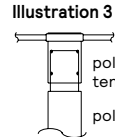


Illustration 3
Yoke fitter slides over tenon

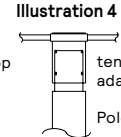


Illustration 4
Tenon fitter adaptor
Yoke fitter slides over tenon

Size	A	B	C	D	EPA's Single	Weight Single
CP17	17" 43.18 cm	8" 20.32 cm	10" 25.40 cm	18" 45.32 cm	.7ft ² .07m ²	31lbs. 14.06 kg
CP22	22" 55.88 cm	11" 27.94 cm	11" 27.94 cm	22" 55.88 cm	1.0ft ² .09m ²	50lbs. 22.68 kg

Size	A	B	C	D	EPA's Single	Weight Single
MP17	17" 43.18 cm	11" 27.94 cm	10" 25.40 cm	21" 53.34 cm	.7ft ² .07m ²	31lbs. 14.06 kg
MP22	22" 55.88 cm	14" 35.56 cm	11" 27.94 cm	25" 63.50 cm	1.0ft ² .09m ²	50lbs. 22.68 kg

Refer to table below for compatibility matrix.

COMPATIBILITY MATRIX See Mounting Illustrations above for more information.	Poles			Tenons		
	3" OD Round Pole	4" OD Round Pole	5" OD Round Pole	T2 2 3/8" O.D. X 4"	T3 3" O.D. X 4"	T4 4" O.D. X 6"
MP17	ref. ill. 2	ref. ill. 1 (preferred method)	Not Available	ref. ill. 3	ref. ill. 3	Not Available
CP17	ref. ill. 2	ref. ill. 1 (preferred method)	Not Available	ref. ill. 3	ref. ill. 3	Not Available
MP22	ref. ill. 4	ref. ill. 2	ref. ill. 1 (preferred method)	ref. ill. 4	ref. ill. 4	ref. ill. 3
CP22	ref. ill. 4	ref. ill. 2	ref. ill. 1 (preferred method)	ref. ill. 4	ref. ill. 4	ref. ill. 3

LED Wattage and Lumen Values Form 10 CP17L-MP17L & CP22L-MP22L

Order Code	LED Qty	System Current (mA)	Color Temp (K)	Ave System Watts ¹ (W)	Type 2			Type 3			Type 4			Type 5		
					Lumen Output ^{2,3}	BUG Rating	Efficacy (lm/W)	Lumen Output ^{2,3}	BUG Rating	Efficacy (lm/W)	Lumen Output ^{2,3}	BUG Rating	Efficacy (lm/W)	Lumen Output ^{2,3}	BUG Rating	Efficacy (lm/W)
CP17L-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
CP17L-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
CP17L-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
MP17L-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
MP17L-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
MP17L-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
CP22L-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
CP22L-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
CP22L-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
MP22L-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
MP22L-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
MP22L-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 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.

CP/MP17L & CP/MP22L Form 10 LED luminaires

Site & Area – Round Post Top

Specifications

Description

The Gardco Form 10 LED round luminaires 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, with hardcoat, fade resistant, electrostatically applied TGIC polyester powdercoat or polyurethane. Optional twin glow rings at post tops are available in (4) colors and are illuminated by the primary source. 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.

Yoke

The 9/16" (1.42cm) diameter parallel yokes of high strength, low mass schedule 40 steel are precision contoured to match the CP or MP housing silhouette. Welds or fasteners are not visible at the luminaire or pole attachment. The yoke is electrogalvanized and coated with satin black polyurethane or polyester powder coat.

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.

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 standard. 10KA per ANSI/IEEE C62.41.2.

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.

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.

Predicted Lumen Depreciation Data

Ambient Temperature °C	System Current	LED Current	Calculated L70hrs ^{1,2}	L70 per TM21 ^{2,3}	Lumen Maintenance @ 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.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

