

by (s) ignify

Site & Area

Form 10 LED

Square arm mount



Gardco Form 10 LED square 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 50 % when compared to HID systems. The EH units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. Form 10 LED square luminaires provide full cutoff performance and feature a flat glass lens.

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

Ordering guide

example: EH14L-32L-450-NW-G2-AR1-2-120-DD-BK

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounti	_	Distr.	Voltage	Controls	-	Electi		Luminaire HIS	Finish —		
EH19L 19" Square Extruded Luminaire LED EH19L 19" Square Extruded Luminaire LED	32L 32 LEDs	450 450mA 900 900mA	NW-G2 Neutral White 4000K, 70CRI Generation 2 WW-G2 Warm White	White, 70CRI for 3"-round AR2	pole ¹	2 Type 2 3 Type 3 4	208	O-10V Dir Driver Photoe Recept	lectric/ acle	ectric/ F2 Doubl		Shield	BRA Bronze Anodized BLA Black Anodized NA		
	48L 48 LEDs	700 700mA	3000K, 70CRI Generation 2	for 4.5' round	pole ¹	Type 4 5 Type 5	240V 277 277V	Systems (Twist Lock Receptacle) TLRD5 Twist Lock Receptacle 5 Pin ⁴ TLRPC	.ock	F3	Canadian Double I (208, 240, 480VAC		Natural Anodized BK Black paint		
	48L 48 LEDs	900 900mA	Cool White 5700K, 70CRI Generation 2	for squared for sq	mount		347 347V 480		ck FP1 Single (120, 2	Single (120, 277, 347VAC)		BZ Bronze paint WH			
	96L 96 LEDs	560 560mA 650 650mA	ide	with arm¹ WM2 without arm¹ Mast Arm Fitt MA Mounts to a 2-3/ O.D. mast arm¹			480V UNV 120-277V 50hz/60hz HVU 347-480V 50hz/60hz	Twist Loc Receptac with Pho	ck cle ptocell ^{3,4} FF	FP2 Double (208, 240, 480VAC)³ FP3 Canadian Double Pull (208, 240, 480VAC)³ Surge Protection SP1 Standard 10KVA SP2 Increased 20KVA	Pull	White paint MGY Medium Gray paint RAL Specify optional color (ex: RAL-7024) CC Custom color (Must supply color chip for required factory quote)			
Prefix			Orive LED Co Current Gener		Distr.²	Voltage	-	Controls	Electrica	1			To required factory quote		
EH/H14L-RK 14" Square Retro		2 LEDs	450 NW- 450mA Neutr 900 900mA Gene		2 Type 2 3 Type 3	208	480 / 480V	DD 0-10V Dimming Driver	Surge I SP1 Standard SP2 Increase	d 10KVA					
EH/H19L-RK 19" Square Retro	I		3000 3000	White K, 70CRI ation 2	Type 4 5 Type 5	240V 277 277V	120-277V 50hz/60hz HVU		liiciease	u zok i	1. St 2. Ty Ty	pes 2,3, and 4 pe 5 optics fe	parate accessory. optics are field rotatable; ature unitized lens.		
	-		560 Cool \ 5700				347-480V 50hz/60hz				3. Must specify in 4. Works with 3-p photocell/dimr 5. Not available in		n or 5-pin NEMA ning device.		



EH14L & EH19L Form Ten LED luminaires

Site & Area - Square Arm Mount

Accessories (order separately)

Pole top fitters (one per pole):

PTF2-(F)

Pole top fitter fits 2 3/8-2 1/2" OD x 4" depth tenon with 1, 2, 3 or 4 luminaires at 90°. Requires AR1. programming is required. If desired, only one is needed per job.

PTF3-(F)

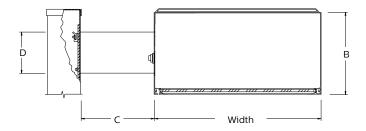
Pole top fitter fits $3-3 \ 1/2"$ OD x 6" depth tenon with 1, 2, 3 or 4 luminaires at 90°. Requires AR2.

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

Dimensions and EPA



Size	Width	Width B		D		
EH14	14" / 35.56 cm	7" / 17.78 cm	6" / 15.24 cm	5" / 12.70 cm		
EH19	19" / 48.26 cm	10" / 5.40 cm	9" / 22.86 cm	5" / 12.70 cm		

Size	Effectiv	Approx. Weight				
Size	Single	Twin	3/4	Single		
14"	1.1 ft ² /.10 m ²	2.3 ft ² /.21 m ²	2.9 ft ² /.27 m ²	30 lbs / 13.61 kg		
19"	2.1 ft ² /.20 m ²	4.0 ft ² /.37 m ²	5.5 ft ² /.51 m ²	55 lbs / 24.95 kg		

LED Wattage and Lumen Values Form 10 EH14L & EH19L

				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}		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)	
EH14L-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	
EH14L-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	
EH14L-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	
EH19L-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	
EH19L-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	
EH19L-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.

EH14L & EH19L Form Ten LED luminaires

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Specifications

General Description

The Gardco Form 10 LED square arm mounted products are cutoff luminaires featuring LED arrays. Form 10 LED square 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. The EH units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. Form 10 LED square luminaires provide full cutoff performance and feature a flat glass lens.

Housing

Extruded housings (EH style) are composed of precisely mitered anodized aluminum extrusions. Pressure injected silicone provides a continuous weather tight seal at all miters and points of material transition.

Arm

Extruded aluminum arm is secured to prewired fixture by contractor. Assembly is suitable for mounting to pole without requiring access to luminaire.

Lens

Mitered, extruded anodized 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 latch and hinge permit easy toolless access to the luminaire.

Thermal Management

Form 10 LED square 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 Temperature °C	System Current	LED Current	Calculated L ₇₀ hrs ^{1,2}	L ₇₀ per TM21 ^{2,3}	Lumen Maintenance @ 60,000hrs	
25 °C	900 mA	900 mA	>100,000	>60,000	98%	

- 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

Extruded housings (EH style) are standard with natural, bronze, or black Aluminum Association Architectural Class I anodized finish. Special color polyester finishes are available in EH housings.

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/ luminaires for complete details and exclusions.

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