

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. The H style luminaires are die formed aluminum with a thermoset polyester finish. Form 10 LED square luminaires provide full cutoff performance and feature a flat glass lens.

Project:	
_ocation:	
Cat.No:	
Гуре:	
_amps:	Qty:
Notes:	

Ordering guide

LED Colo Electrica Luminaire Prefix HIS EH14L 32L 450 NW-G2 120 DD Fusing HIS EH Style Arm mounts 2 450mA 14" Square 32 LEDs Neutral White Type 2 120V 0-10V Dimming Internal AR1 BRA F1 Single Extruded 4000K, 70CRI Driver House Side for 3"-4.5" 900 3 208 (120, 277, 347VAC)3 Bronze Anodized Shield⁵ Luminaire LED Generation 2 900mA round pole¹ Type 3 208V Photoelectric/ F2 Double BLA H14L WW-G2 Receptacle AR2 4 240 (208, 240, 480VAC)3 Black Anodized 14" Square Warm White Systems for 4.5"+ 240V Type 4 48L 700 Canadian Double Pull F3 NΑ Fabricated 3000K, 70CRI (Twist Lock round pole 48 LEDS 700mA 5 277 (208, 240, 480VAC)3 Natural Anodized Luminaire LED Receptacle) Generation 2 AR3 Type 5 277V H or EH Style Pole Mount Fusing TLRD5 CW-G2 for square pole EH19L 48L 900 347 Cool White Twist Lock FP1 Single ΒK Wall mount 347V 19" Square 48 LEDs 900mA 5700K, 70CRI Receptacle 5 Pin⁴ (120, 277, 347VAC)3 Black paint Extruded Generation 2 WM1 480 TI RPC FP2 Double ΒZ Luminaire LED with arm 480V 96L 560 Twist Lock (208, 240, 480VAC)3 Bronze paint H19L 96 LEDs 560mA WM2 UNV Receptacle FP3 Canadian Double Pull wн 19" Square with Photocell ^{3, 4} without arm¹ 120-277V 650 (208, 240, 480VAC) White paint Fabricated 50hz/60hz 650mA Mast Arm Fitter Luminaire LED Surge Protection MGY HVU ΜΑ Medium Gray paint SP1 Standard 10KVA 347-480V Mounts to a 2-3/8" SP2 Increased 20KVA Customer specified 50hz/60hz O.D. mast arm¹ (EH only) Retrofit kit ordering guide RAL Specify optional color (ex: RAL7024) Prefix сс Custom color (Must supply color chip for required factory quote) EH/H14L-RK 32L 450 NW-G2 2 120 347 DD Surge Protection 14" Square Retrofit Kit 32 LEDs 450mA Neutral White 2 agvT 120V 347V 0-10V SP1 4000K, 70CRI Dimming 900 3 208 480 Standard 10KVA Generation 2 Driver 900mA Tvpe 3 480V 208V SP2 WW-G2 UNV Increased 20KVA 4 240 Warm White 120-277V EH/H19L-RK 48L 900 Type 4 240V 1. Shipped as a separate accessory. 3000K. 70CRI 50hz/60hz 19" Square Retrofit Kit 48 LEDs 900mA 5 277 2. Types 2,3, and 4 optics are field rotatable; Generation 2 Type 5 277V HVU Type 5 optics feature unitized lens CW-G2 347-480V 3. Must specify input voltage. 96L 560 Cool White 50hz/60hz 4. Works with 3-pin or 5-pin NEMA 96 LEDs 560mA 5700K. 70CRI photocell/dimming device. Generation 2 5. Not available in Type 5

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



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Accessories (order separately)

Pole top fitters (one per pole):

PTF2-(F)

PTF3-(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.

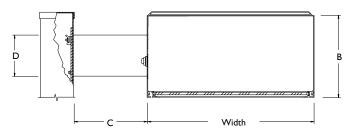
Pole top fitter fits 3-3 1/2" OD x 6" depth tenon with 1, 2, 3 or 4 luminaires at 90°. Requires AR2.

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	В	С	D	Size	Effectiv	e Projected Ar	Approx. Weight		
EH14	14" / 35.56 cm	7" / 17.78 cm	6" / 15.24 cm	5" / 12.70 cm	Size	Single	Twin	3/4	Single	
H14	14" / 35.56 cm	7" / 17.78 cm	6" / 5.08 cm	5" / 12.70 cm	14"	1.1 ft²/.10 m²	2.3 ft²/.21 m²	2.9 ft ² /.27 m ²	30 lbs / 13.61 kg 55 lbs / 24.95 kg	
EH19	19" / 48.26 cm	10" / 5.40 cm	9" / 22.86 cm	5" / 12.70 cm	19″	2.1 ft ² /.20 m ²	4.0 ft ² /.37 m ²	5.5 ft²/.51 m²		
H19	19" / 48.26 cm	10" / 25.40 cm	9" / 5.08 cm	5" / 12.70 cm						

LED Wattage and Lumen Values Form 10 EH/H14L & EH/H19L

				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)	
H14L-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	
H14L-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	
H14L-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	
H19L-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	
H19L-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	
H19L-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 - Square Arm Mount

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. The H style luminaires are die formed aluminum with a thermoset polyester finish. 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. Fabricated (H style) units are one piece, multi-formed aluminum with an integral reinforcing spline and a single concealed joint. Pressure injected silicone provides a continuous weather tight seal at all miters and points of material transition.

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	

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.

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.

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 only. Formed housings (H style) are standard with a chromatic acid pretreatment. The finish coat is a thermosetting polyester baked at 450°F / 232°C to achieve an H-2H hardness measure.

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.

Signify

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