

by (s) ignify

Site & Area

Form 10 LED

Square arm mount



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

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.

Ordering guide

example: EH14L-32L-450-NW-G3-AR1-2-120-DD-BK

Notes:

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounti	ing _	Distr.	Voltage	Controls		Electrical	-	Luminaire HIS -	Finish —
EH14L 14" Square Extruded Luminaire LED	32L 32 LEDs	900 4000K, 70CRI for 3"-4.5" 3 208 Drive 700mA 208 208 Pho		0-10V Dir Driver Photoe Recept	lectric/ acle	F2 Doul	277, 347VAC) ³	HIS Internal House Side Shield ⁵	BRA Bronze Anodized BLA Black Anodized NA				
	48L 48 LEDs	700 700mA	Warm White 3000K, 70CF Generation 3	AR3	pole ¹	Type 4 5 Type 5	240V 277 277V	(Twist L Recepta	.ock	F3 Canadian (208, 240,	adian Double Pull , 240, 480VAC) ³ unt Fusing		Natural Anodized BK Black paint
EH19L 48L 900 Cool White Fixtuded 48 LEDs 900mA 5700K, 70CRI Wall mount Generation 3 WM1		347 347V 480	Twist Loc Receptac	TLRD5 Twist Lock Receptacle 5 Pin ⁴	FP1 Singl	le 277, 347VAC) ³		BZ Bronze paint WH					
Luminaire LED	96L 96 LEDs	560 560mA 650 650mA	ide	Mast MA Moun			480V UNV 120-277V 50hz/60hz HVU 347-480V 50hz/60hz	Twist Loo Receptac with Pho	TLRPC Twist Lock Receptacle with Photocell 3-4		ole , 240, 480VAC) ³ adian Double Pull , 240, 480VAC) ³ otection dard 10KVA eased 20KVA		White paint MGY Medium Gray paint RAL Specify optional color (ex: RAL7024) CC Custom color (Must supply color chip
Prefix				Color - eration	Distr.²	Voltage	,]-	Controls	Electrica	ıl			for required factory quote)
EH/H14L-RK 14" Square Retro		2 LEDs 4	900 400 00mA Gen	-G3 ral White OK, 70CRI eration 3	2 Type 2 3 Type 3	120 120V 208 208V 240	347 347V 480 480V UNV	DD 0-10V Dimming Driver	SP1 Standard	Protection d 10KVA			
EH/H19L-RK 19" Square Retro		-	300 00mA Gen	m White OK, 70CRI eration 3	Type 4 5 Type 5	240V 277 277V	120-277V 50hz/60hz HVU		liiciease	eu zorva	2. Types		ped with the luminaire. otics are field rotatable. voltage.
	_	-	60mA 5700	- G3 White DK, 70CRI eration 3	71		347-480V 50hz/60hz				4. Work		or 5-pin NEMA g 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 3/8-21/2" OD x 4" depth tenon with 1, 2, 3 or 4 luminaires at 90°. Requires AR1.

PTF3-(F)

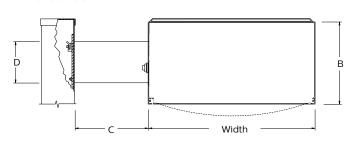
Pole top fitter fits $3-3 \frac{1}{2}$ " OD x 6" depth tenon with 1, 2, 3 or 4 luminaires at 90°. Requires AR2.

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	Effectiv	Effective Projected Area (EPA)										
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								

Size	Width	В	С	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

LED Wattage and Lumen Values Form 10 EH14L

				Ave		Type 2			Type 3			Type 4			Type 5		
Order Code	LED Qty	System Current (mA)	Color Temp (K)	System Watts (W)	Lumen Output	BUG Rating	Efficacy (lm/W)										
EH14L-32L-450-NW-G3-x	32	450	4000	44	5887	B1-U0-G1	133	5642	B1-U0-G1	127	5827	B1-U0-G1	131	5758	B3-U0-G1	130	
EH14L-32L-900-NW-G3-x	32	900	4000	90	10450	B2-U0-G2	116	10015	B2-U0-G2	112	10344	B2-U0-G2	115	10221	B4-U0-G2	114	
EH14L-48L-700-NW-G3-x	48	700	4000	103	12822	B2-U0-G2	124	12288	B2-U0-G2	119	12692	B2-U0-G2	123	12541	B4-U0-G2	122	

LED Wattage and Lumen Values Form 10 EH14L with Internal House Side Shield

				Ave	1	Type 2-HIS			ype 3-HIS		Type 4-HIS		
Order Code	LED Qty	System Current (mA)	Color Temp (K)	System Watts (W)	Lumen Output	BUG Rating	Efficacy (lm/W)	Lumen Output	BUG Rating	Efficacy (lm/W)	Lumen Output	BUG Rating	Efficacy (lm/W)
EH14L-32L-450-NW-G3-x-HIS	32	450	4000	44	4910	B1-U0-G1	111	4627	B1-U0-G1	104	4444	B1-U0-G1	100
EH14L-32L-900-NW-G3-x-HIS	32	900	4000	90	8717	B1-U0-G2	97	8214	B1-U0-G2	92	7889	B1-U0-G2	88
EH14L-48L-700-NW-G3-x-HIS	48	700	4000	103	10695	B1-U0-G2	104	10078	B1-U0-G2	98	9679	B1-U0-G2	94

LED Wattage and Lumen Values Form 10 EH19L

				Ave		Type 2			Type 3			Type 4			Type 5		
	LED	System Current	Color Temp	System Watts	Lumen	BUG	Efficacy										
Order Code	Qty	(mA)	(K)	(W)	Output	Rating	(lm/W)										
EH19L-48L-900-NW-G3-x	48	900	4000	135	16054	B3-U0-G2	119	15501	B2-U0-G2	115	15689	B2-U0-G2	116	15981	B4-U0-G2	118	
EH19L-96L-560-NW-G3-x	96	560	4000	160	21587	B3-U0-G2	135	20843	B3-U0-G3	130	21096	B3-U0-G3	132	21489	B5-U0-G3	134	
EH19L-96L-650-NW-G3-x	96	650	4000	186	24474	B3-U0-G3	131	23631	B3-U0-G3	127	23918	B3-U0-G3	128	24363	B5-U0-G3	131	

EH14L & EH19L Form Ten LED luminaires

Site & Area - Square Arm Mount

LED Wattage and Lumen Values Form 10 EH19L with Internal House Side Shield

				Ave	1	ype 2-HIS		Type 3-HIS			Type 4-HIS		
	LED	System Current	Color Temp	System Watts	Lumen		Efficacy	Lumen	BUG	Efficacy	Lumen	BUG	Efficacy
Order Code	Qty	(mA)	(K)	(W)	Output	Rating	(lm/W)	Output	Rating	(lm/W)	Output	Rating	(lm/W)
EH19L-48L-900-NW-G3-x-HIS	48	900	4000	135	12772	B1-U0-G2	89	12041	B1-U0-G2	84	11590	B1-U0-G2	80
EH19L-96L-560-NW-G3-x-HIS	96	560	4000	160	17174	B2-U0-G2	100	16190	B1-U0-G3	95	15584	B1-U0-G2	91
EH19L-96L-650-NW-G3-x-HIS	96	650	4000	186	19471	B2-U0-G2	98	18356	B2-U0-G3	92	17668	B1-U0-G3	89

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

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.

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	

- 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.

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.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.



© 2019 Signify Holding. All rights reserved. This document contains information relating to the product portfolio of Signify which information may be subject to change. No representation or warranty as to the accuracy or completeness of the information included herein is given and any liability for any action in reliance thereon is disclaimed. All trademarks are owned by Signify Holding or their respective owners.

Signify North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Telephone 855-486-2216 Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 253 Talanhona 800-668-9008