

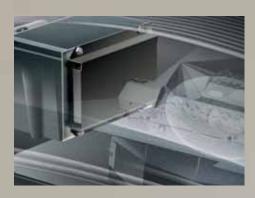








FORM



FUNCTION



PERFORMANCE





An inspiration born of classic forms and thirty years practical experience, Gullwing is equal parts architecture, engineering and performance. These are luminaires where the lines between form, function and performance are indistinguishable. Thirteen and eighteen inch luminaires and their companion sconces, all featuring an exceptionally sleek contoured form, provide the opportunity to stylishly illuminate pedestrian and access areas, as well as large sites. With Gardco Form Ten X optics and lamps to 1000 watts,

FORM

Aesthetically, the Gardco Gullwing draws strength from simplicity of form that makes them a natural complement to any architectural vocabulary. The subtle elimination of the mounting arm allows Gullwing an uninterrupted transition from luminaire to pole. The striking effect is that the luminaire and arm become one. But this design serves practical purposes as well – minimizing wind load and strengthening the assembly.





The Gullwing 107 sconce adds considerable versatility to the series application as forward, wide and medium throw optics to 175 watts are available. Of course, like all Gardco performance optics, illumination is glare-free with sharp cutoff.

FUNCTION



Long Lasting Finishes

The finish is a fade and abrasion resistant, electrostatically applied, thermally cured TGIC powder coat. Gullwing housings are thoroughly cleaned and chromate acid treated prior to paint application. Standard colors feature the lightly textured Gardco finish. Custom colors may vary in texture, so please consult factory.

integrity of the design and construction

a thoughtful, practical and highly refined

program. Every aspect of this luminaire exhibits

approach to initial and long term performance.

Wind Cheating Aerodynamics

Gullwing cheats the wind three ways. First, the slippery silhouette yields an exceptionally low coefficient of drag and correspondingly low EPA values (G18 EPA 1.2 [including 1000 watt MH] G13 EPA 0.8). The immediate benefit is the ability to reduce pole gauge and diameter. Because poles are such a significant portion of total project cost, savings can be substantial.



frame is closed, the 1/8" gasketing is compressed, forming a continuous, positive seal. The lens is EPDM sealed to the frame. Heavy duty galvanized steel retainers secure the lens.

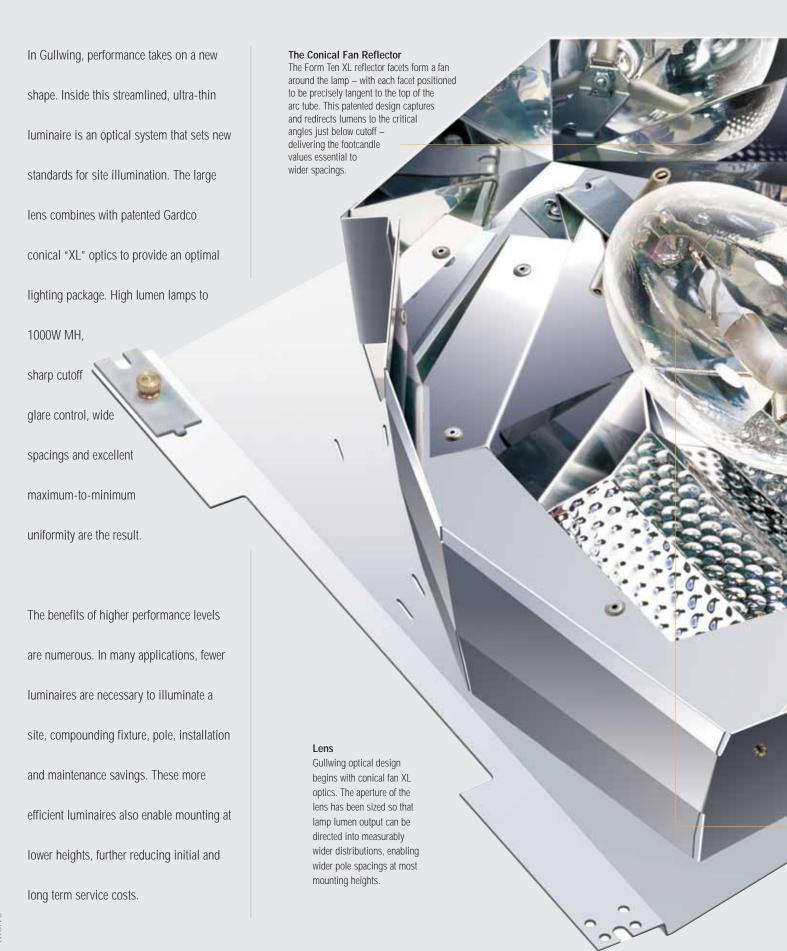
Gullwing harnesses the wind across fins that

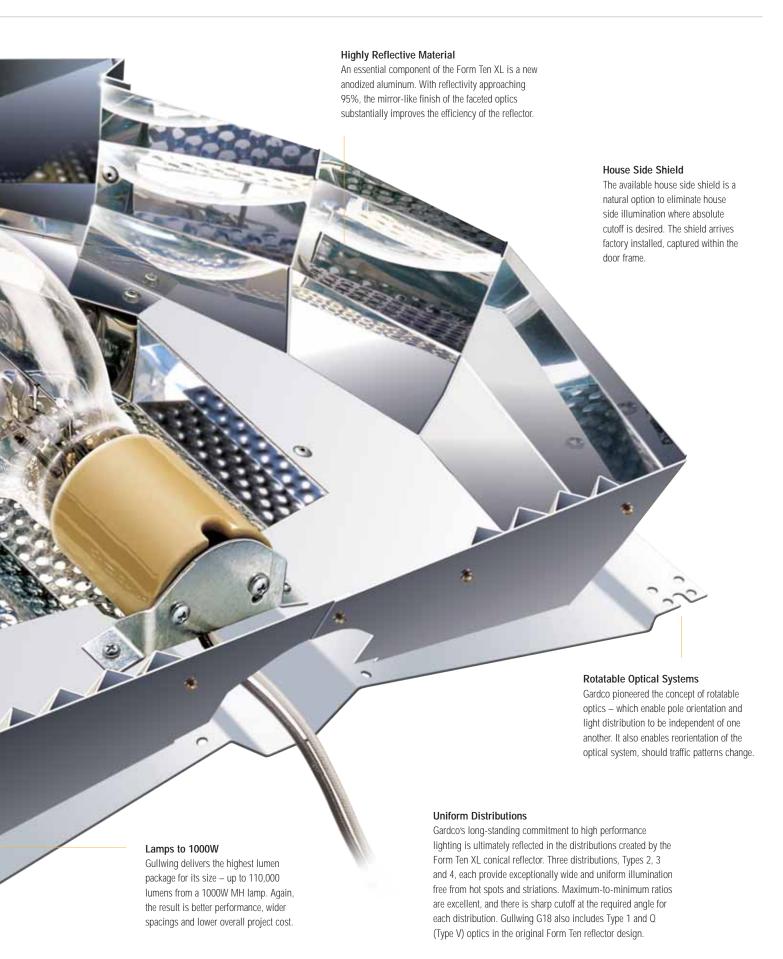
SERVICE



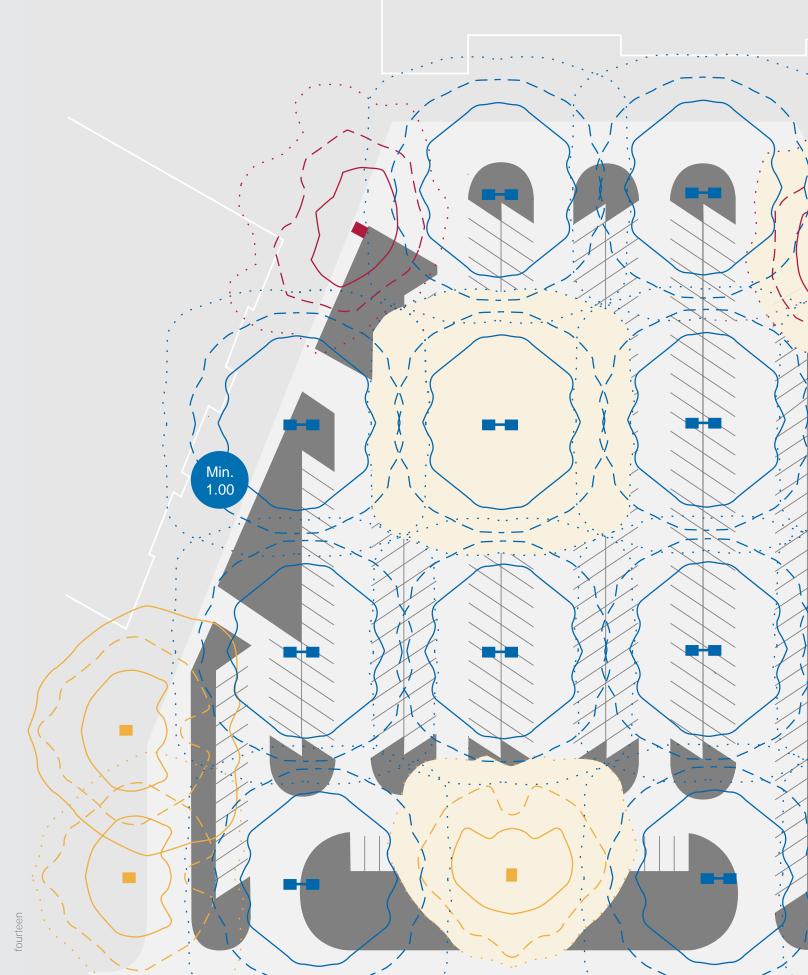


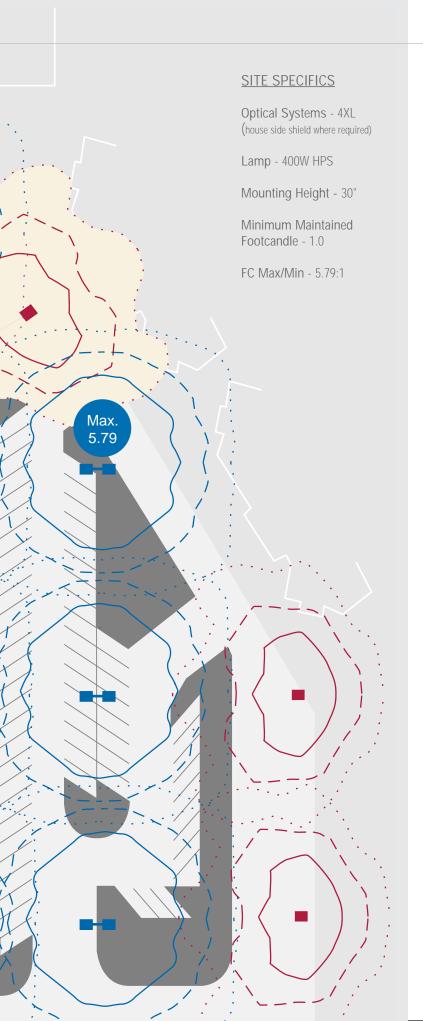
PERFORMANCE





PERFORMANCE





Closer inspection of a typical lighting plan demonstrates how the Gullwing conical fan XL optics deliver uniform illumination free from hot spots and striations — even with wide pole spacing. Maximum pavement illumination is 7.01, yielding a maximum to minimum ratio of 5.79 : 1.

Although five optical systems are available, this site is illuminated using just one. In the center of the parking area, 4XL optics are mounted back-to-back in twin luminaires creating an efficient square distribution. Note how the addition of the factory-installed house side shield completely eliminates backside trespass at the perimeter — in this instance where traffic lanes abut office and residential areas.

A comprehensive Gullwing Applications Guide and the expert services of Gardco's Applications Engineering Department stand ready to assist with site lighting analysis and development.

Photometric data is available in hard copy and disk format.

APPLICATION



Of particular interest is the extended forward throw of the 4XL optical system, which enables exceptionally wide illumination patterns. Even at a mounting height of 24', Gullwing eliminates the need for cobra heads and unsightly mast arm extensions.



Unifying the lighting plan with companion sconces elevates performance and aesthetics.



Sleek, sophisticated – a natural compliment to today's architecture.



Gullwing's precision optics make it possible to tailor mounting locations, pole heights and lamps to unique site geometries, continuing the Gardco tradition of providing glare free illumination and absolute sharp cutoff.



Here, Gullwing pole mount luminaires are paired with companion sconces. Sconces with forward throw optics are available with a 5° uptilt option which extends the effective illumination pattern out and away from buildings.

G13 ORDERING

	PREFIX	CO	NFIGURATIO	ON DI	ISTRIBUTIO	N	WATTAGE	VOLTAGE		FINISH	OPTIONS	
Example	G13		1		2XL		100MH	208		BRP	POLY	
1. A 2. N 3. A 4. P 5. F 6. 1		r 277V only. 180V. alide Lamp. ' only. 50/60	WS		2XL 3XL 4XL MTS ⁵		50 HPS ¹ 70 HPS 100 HPS 150 HPS 50 MH ¹ 70 MH 100 MH 150 MH ³ 175 MH (2) 60 CF ⁶ (3) 42 TRF ⁷	120 208 240 277 347 (70W 480	' and above,	BRP BLP WP NP OC SC	F LF PC PCR POLY (1000W 0) HS QS (1000W 0) PTF SPA SPA is requ square pole	uartz Max) ired for

G18 ORDERING

PREFIX CONFIGURATION DIS	STRIBUTION WATTAGE	VOLTAGE	FINISH	OPTIONS
G18 — 1 —	2XL —— 400MH	208	BRP —	POLY
G18 1 2 3 4 W WS	1 ¹ 150 HPS 2XL 250 HPS 3XL 400 HPS 4XL 750 HPS ² 0 ¹ 100 MH ³ 150 MH ³ 175 MH 250 MH 250 PSMH ³		BRP BLP WP NP OC SC	F LF PC PCR POLY (250W Max) HS QS (150W Quartz Max. RPA1 N/A above 400W HID)
 Types 1 and Q are not available above 400W. Furnished with sag glass lens only. Venture mogul base lamps required. M149 only. Requires MS750/PS/BU-HOR/BT37 lamp. NOTE: 400MH requires ED-28 or BT28 reduced jack RPA is required for round poles.	320 PSMH ¹ 350 PSMH ¹ 400 MH 400 PSMH ¹ 750 PSMH ² 1000 MH ^{2.5} 1000 PSMH ⁵ *Pulse Start Metal H	# Brand Product Code Venture 53702 G.E. 18205 Venture 15332 2.4* For 1000 Pulse Start use Brand Product Code G.E. 10389 Venture 49111 WARNING: Use of other lamp	Catalog Number MS1000W/HOR/BT37/3K MVR1000/U/BT37 MH1000W/U/BT37 Catalog Number MVR1000/U/BT37/PA MS1000W/HOR/T25/PS	PTF2 PTF3 PTF4 SQPTF SG

	CO	NFIGURATION	DI	STRIBUTION		FINISH	
	1	Single Fixture Assembly	2XL	Type I Type II Type III	BLP	Bronze Paint Black Paint White Paint	ا
	2	Twin (Specify 90° or 180° Degrees)		Type IV Type V Medium Throw		Natural Paint Optional Color Paint Specify RAL designation	PO PO
	3	Triple Assembly		with Solite® Lens (G13 only)	SC	ex: OC-RAL7024 Special Color Paint (must supply color chip)) (
	4	Quad Assembly					PT PT PT
	W	Wall Mount, Recessed	J-Box			RPA1 is used for 3" o.d. poles or tapered round poles where	SQP S
_ •	WS	Wall Mount, Surface C (splice compartment within wal				top o.d. is less than 4". RPA2 is used for 4" to 5" round poles.	RP/ RP/

OPTIONS

- F Fusing
- LF In-Pole Fusing
- PC Receptacle and Photocontrol
- PCR Photocontrol (Receptacle Only)
- POLY Polycarbonate Sag Lens (250W Max-G18 & 100W Max-G13)
- HS Houseside Shield
- QS Quartz Standby (Max 100W Quartz G13, 150W Quartz G18)
- PTF2 Pole Top Fitter (2 3/8" Dia. Tenon)
- PTF3 Pole Top Fitter (3-3½" Dia. Tenon)
- PTF4 Pole Top Fitter (31/2"-4" Dia. Tenon)
- SQPTF Square Pole Top Fitter
 - SPA Square Pole Adaptor (G13 only)
- RPA 1 Round Pole Adaptor 1 (G18 only)
- RPA 2 Round Pole Adaptor 2 (G18 only)
- SG Sag Glass Lens (G18 only. Supplied standard on 750W and 1000W)

107 SCONCE ORDERING

Lamp/Voltage Chart – 107									
E17 Voltage	: 120	208	240	277	347	480			
50MH		•			•				
70MH				•	•				
100MH			•	•	•	•			
150MH				•	•				
175MH				•		•			
35HPS									
50HPS	•			•					
70HPS				•	•	•			
100HPS			•	•	•	•			
150HPS			•	•	•				
50CMHE	•			•					
70CMHE				•					
100CMHE	•			•					
Fluorescent									
26QF1	•	•	•	•	•				
226QF1				•	•				
32TRF1	•	•	•	•					
42TRF ¹				•	•				
242TRF1									

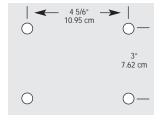
	ı	PREF	FIX DISTRIBUTION				F	FINISH			OPTIONS			
Example		10	7			WT				BRP			PCB	
Configuratio		107	7EM 7EMF 107 E		FT WT MT	Forward Wide Th Medium	nrow² n Thro		BLF WF NF BGF	White Natural Alumin Beige	Black White Natural Aluminum Beige		Fusing (120V, 277V) Quartz Standby Button Type Photocontrol Solite® Diffusing Lens	idby e ol
1072			• • 107E	• • • • • • • • • • • • • • • • • • •	208	Voltage 240 277		480		Specify F designati OC-RAL Special Color ch	RAL tion. ex. 7024		Solite is a registered trademark of AFG Industries 5° Uptilt Wall Mounted B for Surface Cond	istered NFG ted Box
226QF ¹ 42TRF ¹ 242TRF ¹			•									WG	Wire Guard	

Combinations marked with a dot are available for ordering.

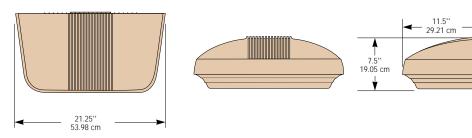
MH - Metal Halide, CMHE - Ceramic Metal Halide with Electronic Ballast, HPS - High Pressure Sodium, QF - Quad Fluorecent, TRF - Triple Tube Fluorescent.

- 1. 26QF, 32TRF and 42TRF types feature an electronic fluorescent ballast that accepts 12V through 277V, 50hz or 60hz input.
- 2. Not available in fluorescent.

DIMENSIONS



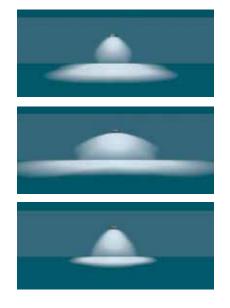
Mounting Bracket Pattern



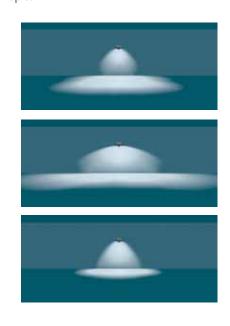
P F R F O R M A N C F

VERSATILITY – The 107 Gullwing Sconce is available in a forward throw distribution for small parking areas and a wide or medium distribution for pedestrian areas. Forward throw units are available with a 5° uptilt option which extends the effective illumination pattern

out and away from buildings. Medium throw units offer performance similar to interior downlights, allowing for illumination of interior spaces. All are suitable for damp location uplighting in lobbies, atriums and beneath canopies.







SPECIFICATIONS

HOUSING: A one-piece die cast aluminum housing mounts directly to a pole or wall without the need for a support arm. The low profile rounded form generates wind loading requirements of 1.2 EPA-G18 and 0.8-G13.

LENS ASSEMBLY: A single-piece die cast aluminum lens frame hinges down from the housing and is secured by a stainless steel lanyard and hinge pin.

An optically clear, heat and impact resistant tempered flat glass lens is mechanically secured with eight retainers (six on G13) (G18 1000W MH utilizes a slightly convex lens). The electrical and optical chambers are thoroughly sealed with a one-piece memory retentive hollow core EPDM gasket to prevent intrusion by rain, dust and insects.

OPTICAL SYSTEMS: The segmented optical systems are manufactured from homogenous sheet aluminum which has been electrochemically brightened, anodized and sealed. The multifaceted arc image duplicating systems are designed to produce IES Types I (1), II (2XL), III (3XL), IV (4XL), and V (Q). With the 2XL, 3XL and 4XL luminaires, the reflector facets form a conical fan around the arc tube with each facet positioned to be precisely tangent to the top of the arc tube.

Sconce optics provide for forward throw, wide and medium distributions. For the G18 a mogul base lampholder is glazed porcelain with a nickel plated screw shell. Position-oriented sockets are supplied standard to accept super metal halide lamps. All G18 units feature lamp stabilizers except 150 HPS. Lampholder for the G13 and 107 Gullwing Sconce is medium base.

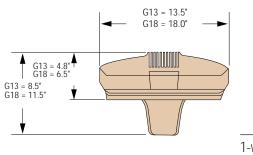
ELECTRICAL: All electrical components are UL recognized, factory tested, and mounted on a unitized plate with quick electrical disconnects. Each high power factor ballast is the separate component type capable of providing reliable lamp starting down to -20°F.

FINISH: Luminaires are finished with a fade and abrasion resistant, electrostatically applied, thermally cured textured TGIC powder coat. Units are thoroughly cleaned and provided with a patented chromate acid pretreatment. Optical and special colors may vary. Contact factory.

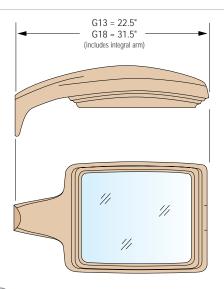
LABELS: All fixtures bear UL or CUL (where applicable) Wet Location labels.

As part of continuing quality improvement programs, Gardco Lighting reserves the right to change materials or modify the design of its product without notification.

DIMENSIONS



E.P.A. (SQ.FT.)								
G13	G18							
1-way – .8	1-way - 1.2							
2-way – 1.6	2-way - 2.4							
3-way – 2.2	3-way – 3.2							



CONFIGURATIONS

For wall-mounted applications, the the design allows mounting to both a j-box and surface conduit. For surface conduit, the splice is made inside the wall canopy. Splice box volume is 50.5 (G18) and 26 (G13) cubic inches.

Gullwing is UL approved for through wiring.



1

4-way -2.2



4-way -3.2





Fascia Plates



Form 10 Round



100 Line Sconces



Bollards





LIGHTING

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