November 04,

2020

City of Goleta

Current Planning Division



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Orion™ | Bike Racks with Round Tubing





Take the Initiative to Make **Cyclists Feel Welcome**

The Orion™ bike racks make it easy for your community to become bicycle friendly in style. Arranged in rows of various colors, they are sure to attract attention and turn many frowns upside down. These bike racks are capable of holding two bikes with the option to mount at front and rear

The 2-3/8" round tubing bike racks are available in a Galvanized, Powder-Coated, Electro Polished Stainless Steel, and Satin #4 Stainless Steel finish. Powder-Coated color options are available as shown. Available with round flanges. Drop In Anchors available for concrete installation.

Model ORN-2-SF-P | Patriot Blue

Matching Products



Surface Mount

Round Flange

Orion™ Bike Racks

Round Tubing

with Lean Bars



In-ground Mount

Galvanized Finish

The hot dip galvanizing process results in an effective corrosion resistant surface with multivaried spangle appearance. Powder-Coated Color Options





▼ Item Specific Details Available on Linked Model Numbers Below

Orion™ Bike Racks | 2-3/8" Round Tubing | Galvanized

Drop In Anchors | for Round Flanges

Orion™ Bike Racks

Square Tubing





Qty

ORN-2-IG-G	In-ground Mount			(35 lbs)	\$239.00					
ORN-2-SF-G	Surface Mount			(32 lbs)	\$289.00					
Orion™ Bike Racks 2-3/8" Round Tubing Powder-Coated Qty										
ORN-2-IG-P	In-ground Mount	Choose Color	~	(35 lbs)	\$239.00					
ORN-2-SF-P	Surface Mount	Choose Color	•	(32 lbs)	\$289.00					
Orion™ Bike Racks 2-3/8" Round Tubing Electro Polished Stainless Steel										

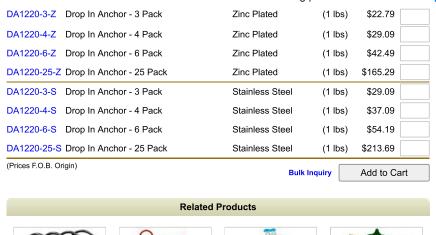
ORN-2-IG-S	In-ground Mount	(35 lbs)	\$679.00	
Orion™ Bike	Racks 2-3/8" Round Tubing Satin #4 Stainless Steel			Qty
ORN-2-SF-ES	Surface Mount	(32 lbs)	\$709.00	
ORN-2-IG-ES	In-ground Mount	(35 lbs)	\$649.00	

ORN-2-IG-S	In-ground Mount	(35 lbs)	\$679.00	
ORN-2-SF-S	Surface Mount	(32 lbs)	\$739.00	

Orion™ Bike Racks with Round Tubing | Belson Outdoors®

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November 04, 2020



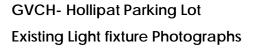




GVCH- Hollipat Parking Lot Existing Light fixture Photographs



November 06, 2020 **City of Goleta**Current Planning Division





November 06,

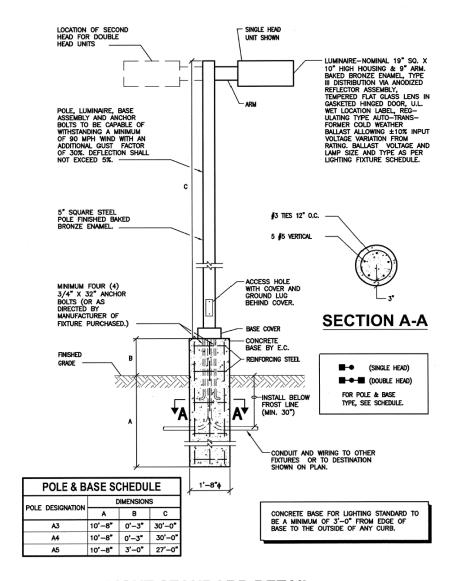




November 06,







LIGHT STANDARD DETAIL

NOT TO SCALE

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FORM TEN

SQUARE FORM AREA LIGHTING





ORIGINAL

A quarter century ago, Gardco reinvented the theory and practice of outdoor lighting with a luminaire and optical assembly that dramatically improved visibility in the nighttime environment. By day, the Form Ten was the first architecturally significant design available to the lighting plan designer.



OPTICAL SYSTEMS

4-9

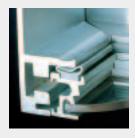
Continuously refined since its inception, the Form Ten remains the standard for high-performance outdoor area lighting. Often imitated but never matched, Gardco's six precision-crafted, multi-faceted optical systems minimize light trespass, sharply cut off glare and uniformly illuminate. There is no more versatile, more efficient illumination system available to engineer and architect.



GUIDELINES AND APPLICATIONS

10-13

The pages that follow introduce the fundamentals of visibility and how it is achieved through the application of six unique optical systems. A practical example is provided to demonstrate the remarkable performance of the system, and how optical systems can be interchanged and rotated within the housing styles to meet site geometry and aesthetic.



DURABILITY

14-15

Durability is uncompromised. With rugged construction, extruded aluminum housings and weather-tight sealing, Form Ten design and construction is synonymous with quality.



SPECIFICATIONS

16-27

Complete ordering and specification information is provided. Your professional Gardco lighting representative can set with urther information.

November 06, 2020

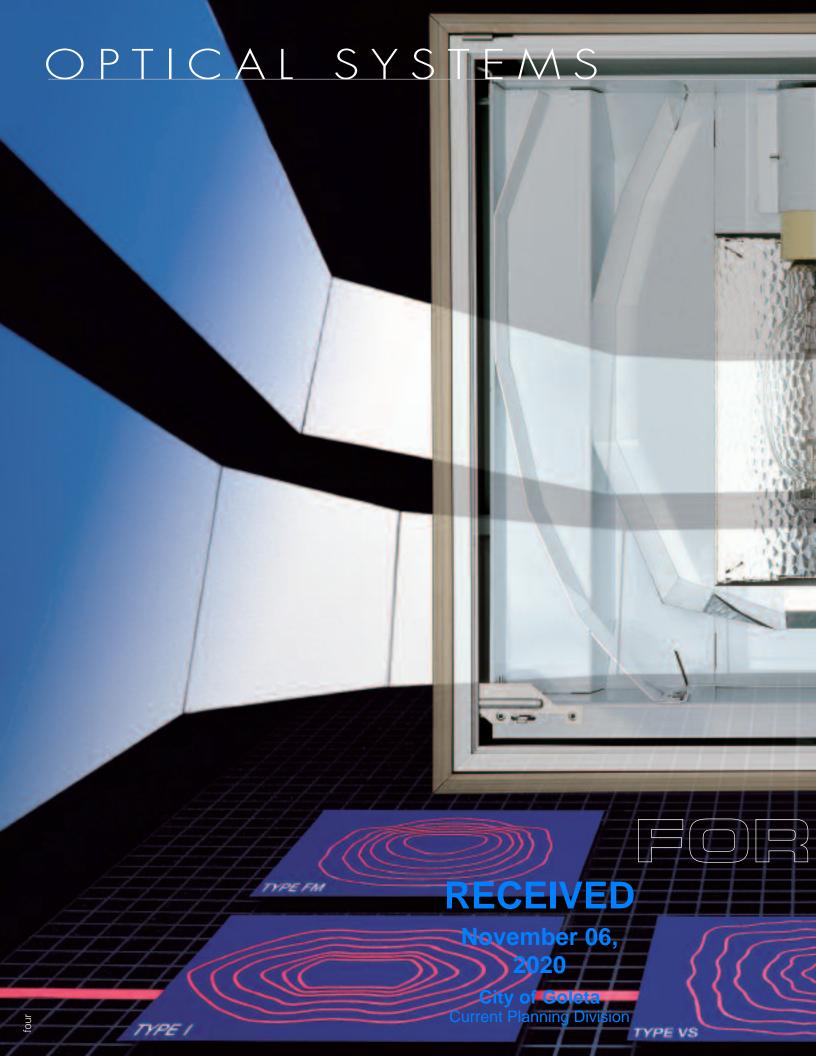
FORM

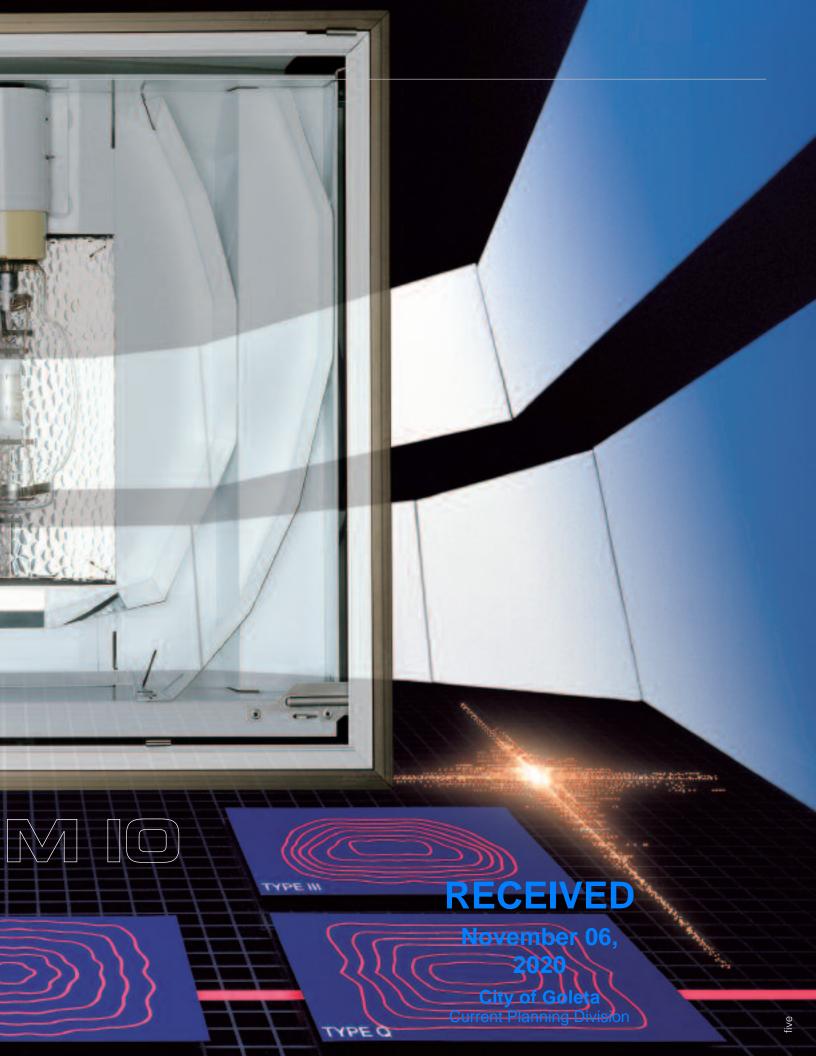


FUNCTION









PERFORMANCE





FLEXIBILITY

The Form Ten system is comprised of high-performance optical reflectors — six multi-faceted, multi-layered reflectors which are unequaled in their ability to efficiently shape, direct and distribute lamp output. They provide remarkable flexibility in precisely matching light distribution patterns to specific site geometry and mounting requirements. Because each reflector is fully interchangeable throughout housing shapes and styles, a uniform site aesthetic can be achieved regardless of luminaire mounting height.

Because Gardco optical systems direct a higher percentage of lamp lumens into desired areas, design criteria may be achieved with wider pole spacings.

Wider spacings can provide immediate savings in luminaires, poles, trenching and other installation costs, and long-term savings in maintenance and energy consumption.



Type 4X

Type 4X conical fan optics produce an asymmetrical distribution pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, the 4X produces a square symmetrical pattern ideally suited for area lighting.



Type I

Type I optics produce a long and narrow distribution pattern that disperses light equally on both sides of the luminaire with peak light output falling along the roadway or walkway. This distribution is most useful in illuminating long, narrow areas.



Applications

- Wide Area Lighting
- Wide Roadway
- Perimeter-Only Lighting
- Low Glare Requirements
- Minimal Mounting Locations



Applications

- Narrow Walkways
- Building Alleyways

Typical Spacing

Median-Mounted Divided Highways

Typical Spacing

Single lumina as E E V1 HH f rw rd and behind x 2 MH forward x 6 MH lateral.

Back-to-back lun**kansvember 06,** 2 MH forward x 6 MH lateral 2020



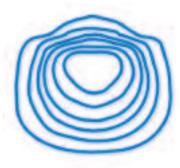
Type III

Type III optics produce an asymmetrical distribution pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, the Type III produces a rectangular pattern which can extend pole spacings.



Type Q

Type Q optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. The optical system is universal for most area lighting applications.



Type FM

Type FM (IES Type IV) forward throw optics distribute the majority of light in front on the luminaire with full cutoff of the pattern behind the luminaire (House Side). This distribution is useful for areas where illumination is to be precisely confined in one direction.



Type VS

The VS optics use a vertically positioned lamp. These Type V cutoff optics produce a square uniform distribution pattern.



Applications

- Semi-Wide Walkways
- Semi-Wide Roadways
- Area Lighting
- Parking Entries/Exits
- Perimeter Lighting



Applications

- Area Lighting
- Wide Median-Mounted Divided Highways
- Parking Entries/Exits



Applications

- Wall Mount Requirements
- Sports (i.e. Tennis Courts)
- Perimeter Lighting with Surrounding Residential



Applications

- Wide Area Lighting
- Higher Glare Acceptable
- Stringent Uniformity Requirements

Typical Spacing

Single luminaire: 5 1/2 MH on center. Back-to-back luminaires:

4-6 MH on center.

Typical Spacing

5 x 5 MH on center.

Typical Spacing

2 M Forvered x 4 MH Hateuri. \(\begin{align*}
\text{ | X \\ | X

Typical Spacing

MH on center.

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VISIBILITY

Providing for good visibility is more difficult in practice than in theory, as site, aesthetic, economic and maintenance factors are introduced.

Designing for good visibility means ensuring that there is an adequate level of illumination, uniform pavement luminance, and minimal glare.

In addition to good visibility, light trespass should be controlled, the daytime product appearance should be appropriate, and both the initial and life-cycle cost of the design should be considered.



The first requirement for visibility is ensuring that there is a sufficient quantity of light. It is always important to consider the surrounding environment. A restaurant parking lot on a dark country road will require significantly lower light levels than that same restaurant parking lot in a downtown area adjacent to other brightly lit commercial establishments.

The second component of visibility is uniformity of pavement luminance. When the eye has to continually adjust to lighter and darker areas, vision is significantly impaired. A uniformly lit site appears lighter than a site which may have somewhat higher light levels, but poor uniformity. Although there are practical difficulties associated with specifying luminance values (footlamberts) as opposed to illuminance values (footcandles), it is important to remember that not elected angles of light that the eye sees, frequently areas lit to extracely uniform illuminance alues (5:1 or below maximum-to-minimum footcandles) may appear non-uniform.



GLARE CONTROL

The factor most destructive to lighting performance is glare. Simply stated, glare is bright direct light from an unshielded source. At night, the human eye is drawn to the most luminous element in its field of vision. Uncontrolled, glare is distracting, causes discomfort to the viewer, and adversely affects visibility. Glare entering the eyes causes a veiling luminance and impairs one's ability to identify objects in the site. Two forms of glare are recognized. The most obvious form, discomfort glare, causes us to avert our eyes from its source. The effects of discomfort glare are mainly psychological (i.e. increasing irritation and tiredness). The second type of glare, disability glare, results in reduced visual performance and visibility. Both types of glare are potentially dangerous and influence traffic safety.

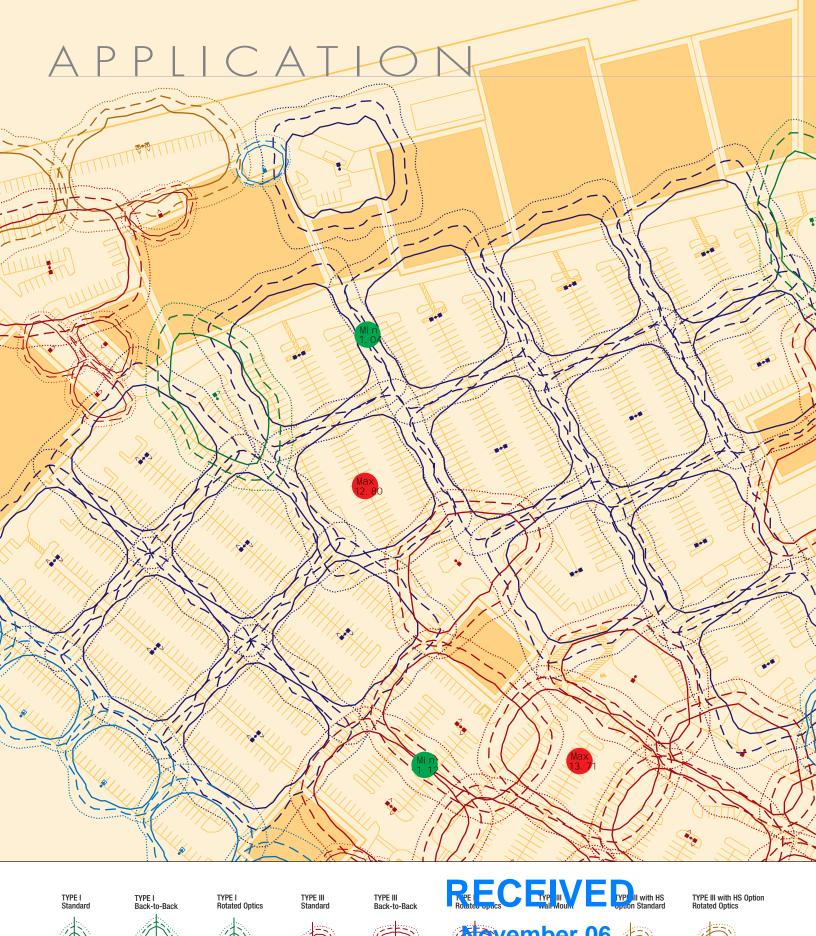
It is because of this phenomenon that Gardco Lighting recommends designing to footcandle levels of 10:1 to 15:1 maximum-to-minimum, which will result in a site that appears uniformly lit.



2020 Cause the eye sees reflected light, sites lit to extremely uniform levels appear dark directly under luminaires.

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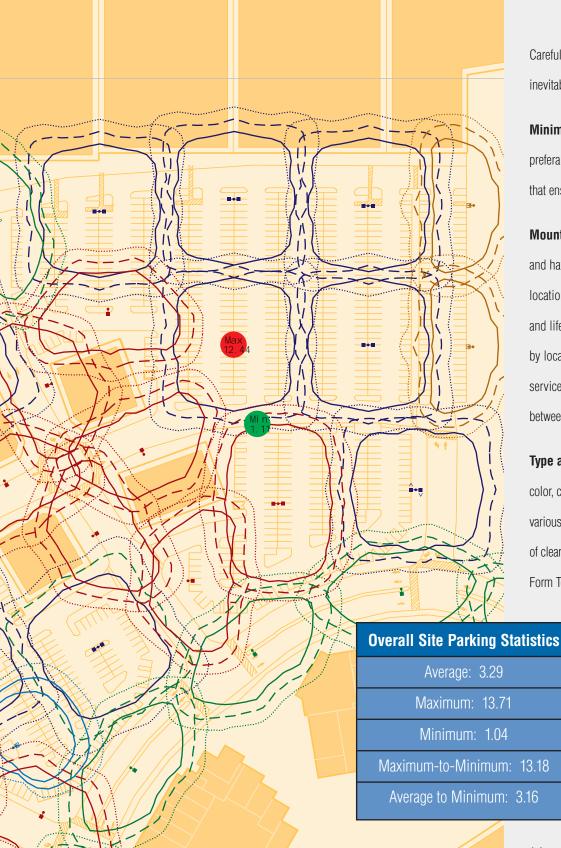












Careful attention to four basic design considerations will inevitably lead to superior visibility and the best value.

Minimum footcandle levels must be established. preferably a maintained level using a depreciation factor that ensures illumination levels are sustained over time.

Mounting heights are of fundamental importance and have a direct influence on the number and location of luminaires, wattages of lamps, and initial and life-cycle costs. Mounting height may be restricted by local ordinance, accessibility and capability of service equipment, and the spatial relationship between the luminaires and landscape.

Type and wattage of lamp includes an analysis of the color, cost, life and performance characteristics of various HID sources. Gardco recommends the choice of clear lamps to optimize the performance of the Form Ten optical systems.

> **Maximum-to-minimum** footcandle ratios of between 10:1 and 15:1 ensure that pavement luminance appears uniform. When mounting heights, lamp types and optical systems are selected and placed as shown at left, light levels and

A footcandle printout verifies that the objectives

uniformity criteria can be verified.

TYPE IV (FM)

TYPE V

RECEIVED
one footcandle minimum maintained, with a accomplished... a











November-to no greater than 15:1. 2020



The integrity of Form Ten appearance and performance owes to a design and construction philosophy without compromise. The weather-tight luminaire housing is sealed at all points of material transition with pressure-injected silicone, and the door frame seals to the luminaire with hollow-core, memory-retentive silicone. Arm assemblies are designed with a double-nut-through-bolt that effectively makes it impossible to misalign luminaire and pole. The pre-wired electrical harnesses is triple-checked prior to shipment. In short, for the architect, contractor and owner, the benefits are immediate, long-term and quite obvious.



At every point of entry the luminaire is sealed against the penetration of moisture, dirt and insects with pressure-injected silicone and memory-retentive silicone gaskets. Not only does the sealed optical chamber preserve the illuminating characteristics of the mirrored, faceted reflector, but it also contributes to longer ballast and electrical component life – a measurable contribution to long-term value.





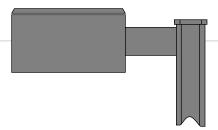
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EH/H ARM MOUNT FORM TEN

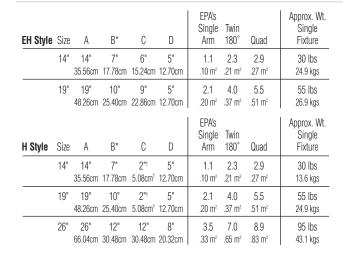
GENERAL DESCRIPTION: The Gardco arm-mounted Square Form Ten products are cutoff luminaires using high-intensity discharge lamps up to 1000 watts. The EH units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. The H and HT style luminaires are die formed aluminum with a thermoset polyester finish. Both products can accept one of six (6) interchangeable and rotatable precision-segmented optical systems.

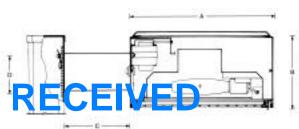
ORDERING

	PREFIX	SIZE	CONF	FIGURATION		TOMETR Ributio		WATTAGE	VO	LTAGE	FINISH		0PTI	ONS
example	EH -	19		2	_	3		400MH	1	20	BRA		MI	F
EH H EH H HT H WA' 100	Extruded Fabricated Extruded Fabricated Fabricated Fabricated Fabricated	19" 19" 19" 26"	4 <u>T19"</u> 750PSMH ⁶	Single Assembly Twin @ 180° Twin @ 90° Triple @ 90° Triple @ 120° Quad Assembly	11 31 4X1.2 FM1 Q1	Type IV Type V Vertical Lai Type V In 400w a are suppli sag lens. supplied it	19/ T19only)	See Table Below	2 2 3 4 Q1 120/2	20 208 240 277 447 480 JAD D08/240/277 tied to 277V	EH and H26 BLA BRA NA OC SC H/HT Style BRP BLP OC SC		POLY HS QS	MF MU UB AP AT PTF2 PTF3 PTF4
175 200 250 175 100		400MH 250PSMH 320PSMH ⁷ 350PSMH ⁷ 400PSMH 450PSMH ⁴ 250HPS 400HPS	875PSMH 750HPS	750PSMH ⁷ 1000PSMH ⁴ 750HPS 1000HPS		FINIS BLA BRA	s. Medium base, x on 14" units.	d		Photocontrol F Polycarbonate 450w maximum.) Internal House Quartz Standby	e Fusing and Receptacle (N/A Receptacle only Sag Lens (In lieu of side Shield (Supplie	f flat glass.	. N/A with	
Foi 2. MP 3. Me 4. Ava 5. Ope 6. M1 7. Rec 8. Ava MH PSMH HPS	and T19" lur wattages abd VPSMH 400v dium base la silable with verrates 55V lar 49 only. Hon guires E28/B; illable with h Metal Ha Pulse Sta High Pre	ove 400w, "XF" fl. w Type 4X lumina mp. ertical lamp optics mp. izontal optics requ 128 lamp. orizontal lamp op alide art Metal Halide sssure Sodium	at lens is supplied ires require the E. s only. uire MS750/PS/B tics only.	olied with flat glass lens i standard. 28/BT28 reduced jackel U/HOR/BT37 lamp. Ujghting.com for most o	lamp.	SC BRP BLP OC SC	Optional Color Specify RAL design Ex: OC-RAL 7024. Special Color P Specify. Must supp. H/HT Style Bronze Paint Black Paint Optional Color Specify RAL design Ex: OC-RAL 7024. Special Color P Specify. Must supp.	Paint nation. laint ly color chip. Paint nation.	SG CD MF MU UB AP AT PTF2 PTF3	Extended Flat Allows for the us classification. T1s above 400w.) Sag Glass Len: Clear Drop Dif Mass Arm Fitte 10° Uptilt Brac Quick Disconn Adjustable Knu and 2 @ 180° mc Adjustable Knu N/A with 14" units. Pole Top Fitter Pole Top Fitter	Glass Lens (Flat gla se of a larger lamp and 9 9 supplied standard win S (In lieu of flat glass: fluser (EH Style only.) er cket lect for Ballast Tray uckle — Pole Moun punting.) uckle — Tenon Mou	still meet th horizon Supplied) It (Only av unt (Fits 2	IES Full co tal lamp o _l standard v railable wit	utoff ptics with 26" VS.) th 1 way

Prior to ordering, consult submittal data sheet on sitelighting.com for most current information. Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

DIMENSIONS





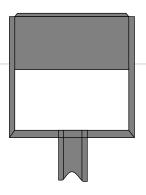
November 06,

Note: T19 housing B dimens 2022 are 2.2, 4.3 and 6.4, and weight is 65 lbs.

*VS units with say (e); tay over he gassol and (EH/H-14), 13 3/8° (EH/H-19) and 21° (H-26). †4-way units have arm lengths of 6° (H-14) and 9° (H-19).

Note: C And Linguist.





JEH/JH YOKE MOUNT $F \cap R M$

GENERAL DESCRIPTION: The Gardco post-top yoke-mounted Form Ten products are sharp cutoff luminaires for high-intensity discharge lamps up to 1000 watts. JEH units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. The JH luminaires are die formed aluminum with a thermoset polyester finish. Both products feature a choice of six (6) interchangeable and rotatable precision-segmented optical systems.

	PREFIX	SIZE	CONFIGURATION		TOMETRIC TRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
example	JEH ——	19 —	1		3	400MH	120	BRA —	— MF
JEH JH JEH JH JH	Fabricated	14" 14" 19" 19" 26"	1 Single Assembly	1 3 4X ^{1,2} FM Q	Horizontal Lamp Type I Type III Type IV (19"only) Type IV Type V	See Table Below	120 208 240 277 347 480	EH and H26 BLA BRA NA OC SC	F LF PC PCR POLY XF
square fitter fo by othe or a 3.5	nires furnished with G fitter for square alum r round poles. Lumin rs will be supplied w 5" O.D. fitter for a 2 3,	inum or steel polo aires furnished fo ith a 5" O.D. fitter	es or a round r use with poles for a 4" X 6" tenon	VS	Vertical Lamp Type V In 400w and below, luminai, are supplied with an acrylic lens. A glass sag lens is suy with luminaires above 400w with 26" luminaires. Mediu 200w max on 14" units.	sag oplied and	QUAD 120/208/240/277 factory tied to 277V	H/HT Style BRP BLP OC SC	SG QS QST CD UB HS

DUOTOMETRIO

W	AT	TA	GE

<u> 14"</u>	<u>19"</u>	<u>26°</u>		
100MH ³	250MH	1000MH		
150MH ³	400MH	750PSMH⁵		
175MH 200MH	250PSMH	1000PSMH ³		
250MH ⁶	320PSMH ⁷ 350PSMH ⁷	750HPS 1000HPS		
175PSMH⁴	400PSMH	וטטטורט	MH	Metal Halide
100HPS	450PSMH⁴		IVIH PSMH	Pulse Start Metal Halide
150HPS ⁴	250HPS 400HPS		HPS	High Pressure Sodium

Notes

- 19", 400w and below are supplied with flat glass lens standard. For wattages above 400w, "XF" flat lens is supplied standard.
- MH/PSMH 400w Type 4X luminaires require the E28/BT28 reduced jacket lamp.
- 3. Medium base lamp.
- Available with vertical lamp optics only.
- 5. M149 only. Horizontal optics require MS750/PS/BU/HOR/BT37 lamp.
- Horizontal optics only.
- 7. Requires E28/BT28 lamp

Prior to ordering, consult submittal data sheet on sitelighting.com for most current information. Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

FINISH

JEH and JH26 **BLA** Black Anodized **BRA** Bronze Anodized

NA Natural Aluminum Anodized

OC Optional Color Paint Specify RAL designation. Ex: OC-RAL7024.

SC Special Color Paint Specify. Must supply color chip.

JH Style

BRP Bronze Paint

BLP Black Paint

OC Optional Color Paint Specify RAL designation. Ex: OC-RAL7024.

SC Special Color Paint Specify. Must supply color chip.

OPTIONS

F Fusing (In head.)

LF In-Line/In-Pole Fusing

PC Photocontrol and Receptacle (N/A with 480V.)

PCR Photocontrol Receptacle only

POLY Polycarbonate Sag Lens (In lieu of flat glass, N/A with 4X optics, 450W maximum.)

XF Extended Flat Glass Lens (Flat glass lens with extended drop. Allows for the use of a larger lamp and still meet IES Full cutoff classification.)

QS Quartz Standby

QST Quartz Standby – Timed Delay

SG Sag Glass Lens (In lieu of flat glass. Supplied standard with 26" VS.)

Clear Drop Diffuser (JEH Style only.)

UB Quick Disconnect for Ballast Tray

HS Internal Houseside Shield (Supplied standard with FM optics.)

dimensions

JH/JEH Style

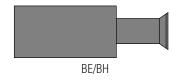
Size	А	В	Ü	D	EPA (ft²)	
14	14"	7"	17"	1.5"	1.4	
	35.56cm	17.78cm	43.18cm	3.81cm	.13 m²	
19	19" 10"		23"	1.5"	2.5	
	48.26cm	25.40cm	58.42cm	3.81cm	.23 m²	
26	26"	12"	25"	1.5"	2.8	
	66.04cm	30.48cm	68.58cm	3.81cm	.26 m²	





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be/we/bh/wh wall mount FORM





GENERAL DESCRIPTION: The Gardco wall-mounted Square Form Ten products are sharp cutoff luminaires for high-intensity discharge lamps up to 875 watts. BE and WE units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. The BH and WH luminaires are die formed aluminum with a thermoset polyester finish. Both products can accept one of four (4) interchangeable and rotatable precision-segmented optical systems.

Ordering

	OUNTING	HOUSING	SIZE	CONFIGURATION	PHOTOMETRIC DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
example	В	Е —	- 19 -	1	FM —	400MH	120	BRA —	PCR
B W	Arm Mount No Arm	E Extruded H Fabricated E Extruded H Fabricated HT Fabricated	14" 14" 19" 19" 19"	1 Single Assembly	Horizontal Lamp 1 Type 3 Type II 4X'-2 Type IV (19"/ T19"o FM Type IV Type Typ	See Table Below	120 208 240 277 347 480 QUAD	BE and WE BLA BRA NA OC SC BH/BHT and WH/WHT BRP BLP	F PC PCR POLY XF SG HS QS
WATT		740					Factory tied to 277V	OC SC	QST CD
14" 100M	19" 250ML	<u>Т19"</u> з 750рсмы (5			FINIOU	0.1	DIIONE	UB

MH	Metal Halide
PSMH	Pulse Start Metal Halide
HPS	High Pressure Sodium
	SMH

Notes

- 19" and T19" luminaires, 400w and below are supplied with flat glass lens standard. For wattages above 400w, "XF" flat lens is supplied standard.
- 2. MH/PSMH 400w Type 4X luminaires require the E28/BT28 reduced jacket lamp.
- 3. Medium base lamp.
- 4. Operates 55V lamp
- Requires E28/BT28 lamp.

400HPS

6. M149 only. Horizontal optics require MS750/PS/ BU/HOR/BT37 lamp.

Prior to ordering, consult submittal data sheet on sitelighting.com for most current information. Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

FINISH

BE and WE **BLA** Black Anodized

BRA Bronze Anodized NA Natural Aluminum Anodized

OC Optional Color Paint Specify RAL designation. Ex: OC-RAL7024.

SC Special Color Paint Specify. Must supply color chip.

BH/BHT and WH/WHT

BRP Bronze Paint

BLP Black Paint

OC Optional Color Paint Specify RAL designation. Ex: OC-RAL7024.

Special Color Paint Specify. Must supply color chip.

OPTIONS

F Fusing (In head.)

Photocontrol and Receptacle

(N/A with 480V.)

PCR Photocontrol Receptacle only POLY Polycarbonate Sag Lens (In lieu of

flat glass. N/A with 4X optics. 450W maximum.) Extended Flat Glass Lens (Flat glass lens with extended drop. Allows for the use of a larger lamp and still meet IES Full cutoff

classification. T19 supplied standard with horizontal lamp optics above 400w.) Sag Glass Lens (In lieu of flat glass.

Supplied standard with 26" VS.)

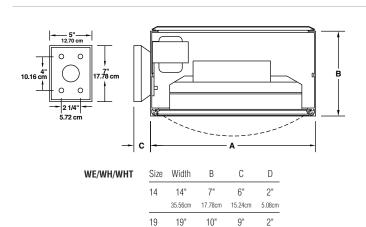
Internal Houseside Shield (Supplied standard with FM optics.)

Quartz Standby

QST Quartz Standby - Timed Delay

Clear Drop Diffuser (EH Style only.)

Quick Disconnect for Ballast Tray



48.26cm

T19 19" 25.40cm

12"

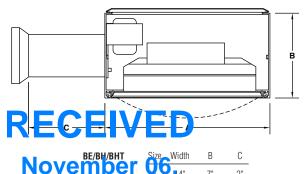
22.86cm

9"

22.86cm

5.08cm

2"



	14	714	1	2
2020		35.56cm	17.78cm	5.08cm
2020	19	19"	10"	2"
Ottor of Onla		48.26cm	25.40cm	5.08cm
City of Gole			12"	2"
Current Planning D	ivis	S 16240	30.48cm	5.08cm



A STYLE FORM TEN

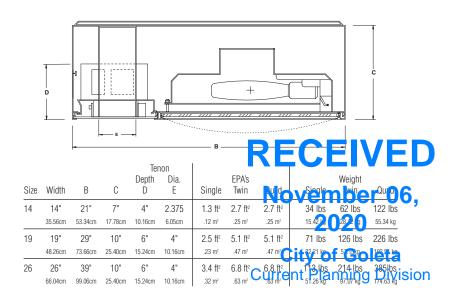
GENERAL DESCRIPTION: The Gardco A Style Form Ten products are rectilinear sharp cutoff luminaires for high-intensity discharge lamps up to 1000 watts. Housings are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. The A Style luminaires feature a choice of six (6) interchangeable and rotatable precision-segmented optical systems.

ORDERING

example	PREFIX	SIZE — 19	CONFIGURA 2	·	PHOTOMETRIC DISTRIBUTION FM		wattage 400MH	VOLTAGE 120	— В	NISH RA ——	OPTIONS HF
	А	14" Extruded 19" Extruded 26" Fabricated	1 Single / 2 Twin @ 3 Triple @ 4 Quad A	180° 1 3 90° 3	Type IV Type V		See Table Below	120 208 240 277 347 480	E	BLA Bra Na OC SC	F LF PC PCR POLY HS
14" 100 150 175	OMH³ OMH³ 5MH	19" 250MH 400MH 250PSMH	26" 1000MH 750PSMH ⁷ 1000PSMH ⁸	VS	Vertical Lamp Type V In 400w and below, are supplied with at sag lens. A glass sa supplied with lumin above 400w and wi	n acrylic ag lens is naires	FINISH	QUAD 120/208/240/277 Factory tied to 277V	OPTIO	DNS	XF SG QS QST
17: 10:	OMH4 5PSMH ⁵ OHPS OHPS ⁶	320PSMH ⁹ 350PSMH ⁹ 400PSMH 450PSMH ⁵ 750PSMH ⁷ 250HPS 400HPS 750HPS	750HPS 1000HPS		luminaires. Mediun 175w max on 14° u		OC Optional Specify RAL Ex: OC-RAL SC Special (nodized Numinum Anodized Color Paint designation. 7024. Color Paint	LF PC PCR POLY		e Fusing nd Receptacle eceptacle only Sag Lens s. N/A with 4X optics.)
Notes 1. 19" luminaires, 400w and below is supplied with flat glass lens standard. For waitages above 400w, "XF" flat lens is supplied standard. 2. MH/PSMH 400w Type 4X luminaires requires the E28/BT28 reduced jacket lamp. 3. Medium base lamp. Specily. Musi supply color clip. (Supplied standard with FM optic. XF Extended Flat Glass Lens (Factorial flat Glass Lens) lens with extended drop. Allows fit use of a larger lamp and still mee							d with FM optics.) Glass Lens (Flat glass I drop. Allows for the op and still meet IES Full				
5. A 6. C 7. M 8. H	4. 14°250MH luminaires available in single and twin configurations only. Horizontal optics only. 5. Available with vertical lamp optics only. 6. Operates 55V lamp. 7. M149 only. Horizontal optics require M5750/PS/BU/HOR/BT37 lamp. 8. Horizontal optics require M1000/PS/U/BT37 Lamp 9. Requires £28/BT28 lamp. Whetal Halide 1. Valide Halide 1. Valide Halide 2. Valide Halide 3. Sag Glass Lens (In lieu of flat glass. 3. Supplied standard with 26" VS.) 4. Unity Pressure Sodium 3. Supplied standard with 26" VS.) 4. Ouartz Standby 4. Ouartz Standby 4. Ouartz Standby 5. Requires £28/BT28 lamp.								(In lieu of flat glass. with 26" VS.)		

Prior to ordering, consult submittal data sheet on sitelighting.com for most current information. Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

DIMENSIONS



SPECIFICATIONS

Housing

Extruded housings (A, EH, JEH, WE, and BE) feature four (4) precisely mitered and welded 0.130" (.33cm) aluminum side sections. Fabricated housings (H, HT, JH, WH, BH) are single-piece, multi-formed 0.06" (.15cm) aluminum sheet with an integral reinforcing spline. All units feature a press-formed aluminum top, which is welded to the housing sides. After finishing, pressure-injected silicone is applied to all miters and points of material transition, providing a continuous weather-tight seal. Luminaires are pre-wired and suitable for installation without accessing housing.

Arm

(EH, H, BE, BH) Extruded aluminum arm features integral channel to support tie rods maintaining housing-to-pole (or wall bracket) alignment.

Yoke

(JEH, JH) The co-axial fitter-yoke assembly is fabricated from extruded rectangular aluminum tubing with welded mitered corners. The yoke-to-pole fitter is designed and manufactured specifically for the pole, ensuring that transitions are clean and continuous.

Wall Bracket

Hooking die cast aluminum wall bracket conceals 10-gauge mounting plate.

Lens

Mitered, extruded anodized aluminum door frame retains the optically clear, heat- and impact-resistant tempered flat glass (unless otherwise specified) 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.

Optical Systems

The segmented Form Ten optical system is homogenous sheet aluminum, electro-chemically brightened, anodized and sealed. The segmented reflectors are set in faceted arc tube image duplicator patterns to achieve desired distribution.







At the heart of the Gardco optical system, two levels of mirror-polished facets are precisely aligned with the arc tube of an HID lamp so as to present it with optimal reflective surfaces. The configured, hammertone uplight recovery box directs lumens out and away from below the luminaire, eliminating hotspots. Precise lamp positioning ensures full cutoff of light, minimizing glare and controlling light trespass. No optical system can consistently match the predictable, exacting performance of this faceted, full cutoff For Release Living Direct Living Light trespass.

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The mogul base lampholder is glazed porcelain with a nickel-plated screw shell. 50MH, 70MH, and 100MH units have medium base lampholder. Metal halide units with horizontally positioned mogul base sockets feature lamp stabilizers ensuring precise arc tube positioning.

Electrical

Each high power factor ballast is the separate component type, capable of providing reliable lamp starting down to -20°F/-29°C. High Pressure Sodium ballasts operate lamps within ANSI trapezoidal limits. Metal Halide and

Mercury Vapor ballasts are medium regulation auto transformer providing ±10% variation from rated input voltage.

Component-to-component wiring within the luminaires will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 301°F/150°C or higher.

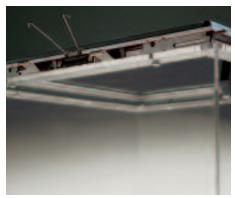
Finish

Painted units feature hardcoat fade-resistant thermal cured polyester finish. Extruded units (A, EH, JEH, WE and BE) are available with Aluminum Association Architectural Class I Anodizing.

Labels

All Fixtures bear UL and/or CUL (where applicable) Wet Location labels.

Gardco reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program. Gardco's segmented reflector optical system has been awarded U.S. Patent #3746854. The Gardco Form Ten X optical system has been awarded U.S. Patent #5690422







Optional clear drop acrylic diffuser provides a decorative accent to luminaires. Memory-retentive silicone gasket won't take a set which can result in gaps after relamping. Flat surfaces, sharp corners and precise geometric proportions characterize the pure architectural forms of the Square Form Ten product line.

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Gullwing



Fascia Plates



Floodlight



100 Line Sconces





LIGHTING

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