

Notes:

Job:

Type:

FORM 10 SQUARE

A STYLE

GENERAL DESCRIPTION: The Gardco A Style Form 10 products are rectilinear 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 rotatable precision segmented optical systems.

CUTOFF PERFORMANCE: Flat glass lens luminaires provide full cutoff performance. Sag Lens luminaires provide cutoff performance.

ORDERING

| PREFIX | CONFIGURATION | DISTRIBUTION | WATTAGE | VOLTAGE | FINISH | OPTIONS |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| | | | | | | <input type="text"/> |

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

| | |
|------------|------------------------|
| A14 | 14" Extruded Luminaire |
| A19 | 19" Extruded Luminaire |
| A26 | 26" Extruded Luminaire |

CONFIGURATION

| | |
|----------|-----------------------|
| 1 | Single Assembly |
| 2 | Twin Assembly @ 180° |
| 3 | Triple Assembly @ 90° |
| 4 | Quad Assembly |

DISTRIBUTION

Horizontal Lamp

| | |
|-------------------------|--------------------|
| 1 | Type I |
| 3 | Type III |
| 4X^{1,2} | Type IV (19" only) |
| FM | Type IV |
| Q | Type V |

- 19" luminaires, 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.

Vertical Lamp

VS Type V

In 400w and below, luminaires are supplied with an acrylic sag lens. A glass sag lens is supplied with luminaires above 400w and with 26" luminaires. Medium base, 175w max on 14" units.

WATTAGE

| 14" | 19" | 26" |
|----------------------------|----------------------------|-----------------------------|
| 100MH³ | 250MH | 1000MH |
| 150MH³ | 400MH | 750PSMH⁷ |
| 175MH | 250PSMH | 1000PSMH⁸ |
| 250MH⁴ | 320PSMH⁹ | 750HPS |
| 175PSMH⁵ | 350PSMH⁹ | 1000HPS |
| 100HPS | 400PSMH | |
| 150HPS⁵ | 450PSMH⁵ | |
| | 750PSMH⁷ | |
| | 250HPS | |
| | 400HPS | |
| | 750HPS | |

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

3. Medium base lamp.
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 MS750/PS/BU-HOR/BT37 lamp.
8. Horizontal optics require M1000/PS/U/BT37 lamp.
9. Requires E28/BT28 lamp.

VOLTAGE

| | | | |
|------------|------------|------------|---|
| 120 | 240 | 347 | QUAD |
| 208 | 277 | 480 | 120/208/240/277, Factory tied to 277V. |

FINISH

| | |
|------------|--|
| 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. |

OPTIONS

| | | | |
|-------------|---|------------|---|
| F | Fusing <i>In Head</i> | XF | Extended Flat Glass Lens <i>Flat Glass lens with extended drop. Allows for the use of a larger lamp while providing full cutoff performance.</i> |
| LF | In-Line/In-Pole Fusing | SG | Sag Glass Lens <i>In lieu of flat glass Supplied standard with 26" VS.</i> |
| PC | Photocontrol and Receptacle <i>N/A with 480V.</i> | QS | Quartz Standby |
| PCR | Photocontrol Receptacle only | QST | Quartz Standby - Timed Delay |
| POLY | Polycarbonate Sag Lens <i>In lieu of flat glass. N/A with 4X optics.</i> | | |
| HS | Internal Houseside Shield <i>Supplied standard with FM optics.</i> | | |

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. The 4X optical system is protected by U.S. patent number 5690422.

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Genlyte Group

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FORM 10 SQUARE

A STYLE

SPECIFICATIONS

GENERAL: Each Gardco Form Ten A Style is a rectilinear cutoff luminaire for high intensity discharge lamps. Luminaires are equipped with internal slip fitters for pole top mounting and are available in one-way, two-way and four-way configurations proportionately scaled in three sizes with HID lamps from 70 to 1000 watts. Internal components are totally enclosed, rain-tight, dust-tight and corrosion resistant. No venting of optical system or electrical components is required or permitted. Lamping requires no lifting or hinging the luminaire housing, disturbing wiring or exposing uninsulated live parts.

HOUSING: Housings are composed of precisely mitered anodized aluminum extrusions. Tops are press-formed with a returned perimeter flange which are internally welded with the housing sides. Pressure injected silicone provides a continuous weathertight seal at all miters and points of material transition.

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. 26" VS Luminaires feature a sag glass lens. In 400w and below, Type VS luminaires are supplied with an acrylic sag lens. A glass sag lens is supplied with Type VS luminaires above 400w. Concealed stainless steel latch and hinge permit easy toolless access to the luminaire.

OPTICAL SYSTEMS: The segmented Form Ten optical system is homogeneous sheet aluminum, electrochemically brightened, anodized and sealed. The segmented reflectors are set in faceted arc tube image duplicator patterns to achieve IES Types I (1), III (3), IV (FM, 4X), and

V (Q - horizontal lamp and VS - vertical lamp) distributions. The mogul base lampholder is glazed porcelain with a nickel plated screw shell with lamp grip - all securely attached to the reflector assembly. 100MH units have medium base lampholder. All horizontal Metal Halide units in the 19" and 26" housings have 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. The ballast is secured within the luminaire, adjacent to the reflector system. 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 301°F/150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

FINISH: Anodized housings are created with an Aluminum Association Architectural Class I anodizing process to achieve a bronze, black or natural aluminum finish. Painted units are finished with hardcoat, fade resistant, electrostatically applied polyurethane. Consult factory for special color finishes.

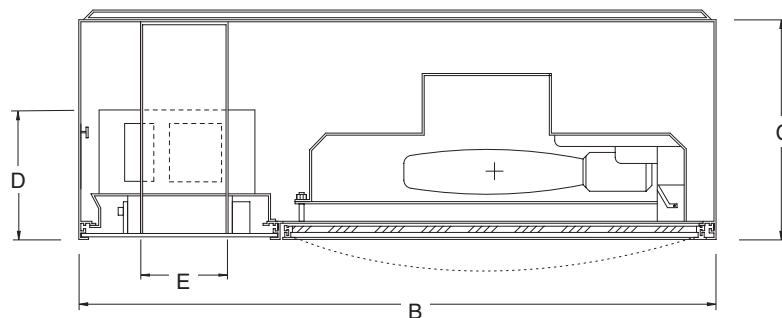
LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle of 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

CUTOFF PERFORMANCE: Cutoff performance means a luminaire distribution where the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle at or above 90° above nadir, and 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

DIMENSIONS

| Size | Width | Tenon | | | | EPA's | | | Weight | | |
|------|----------|----------|----------|----------|----------|---------------------|---------------------|---------------------|----------|----------|-----------|
| | | B | C | Depth | Dia. | Single | Twin | Quad | Single | Twin | Quad |
| 14 | 14" | 21" | 7" | 4" | 2 3/8" | 1.3 ft ² | 2.7 ft ² | 2.7 ft ² | 34 lbs | 62 lbs | 122 lbs |
| | 35.56 cm | 53.34 cm | 17.78 cm | 10.16 cm | 6.05 cm | .12 m ² | .25 m ² | .25 m ² | 15.42 kg | 28.12 kg | 55.34 kg |
| 19 | 19" | 29" | 10" | 6" | 4" | 2.5 ft ² | 5.1 ft ² | 5.1 ft ² | 71 lbs | 126 lbs | 226 lbs |
| | 48.26 cm | 73.66 cm | 25.40 cm | 15.24 cm | 10.16 cm | .23 m ² | .47 m ² | .47 m ² | 32.21 kg | 57.15 kg | 102.51 kg |
| 19 | 26" | 39" | 10" | 6" | 4" | 3.4 ft ² | 6.8 ft ² | 6.8 ft ² | 113 lbs | 214 lbs | 385 lbs |
| | 66.04 cm | 99.06 cm | 25.40 cm | 15.24 cm | 10.16 cm | .32 m ² | .63 m ² | .63 m ² | 51.26 kg | 97.07 kg | 174.63 kg |



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