

Notes:

Job:

Type:

FORM TEN SQUARE

HPV SERIES - HIGH PERFORMANCE VERTICAL

GENERAL DESCRIPTION: The Gardco square arm mounted high performance vertical products are sharp cutoff luminaires for high intensity discharge lamps up to 1000 watts. The HPV units are dieformed aluminum and finished with a TGIC Polyester powdercoat. The HPV can accept one of two (2) interchangeable and rotatable precision segmented optical systems. These optical systems utilize principles of Gardco's patented Form 10X technology applied to vertical lamp optics. The result yields the highest performance possible from a full cutoff vertical lamp system.

CUTOFF PERFORMANCE: Flat 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"/>
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.						<input type="text"/>

PREFIX

HPV23

CONFIGURATION

- | | |
|--------|--------------------------|
| 1 | Single Pole Mount |
| 2 | Twin Pole Mount at 90° |
| 2@180 | Twin Pole Mount at 180° |
| 3 | 3-way Pole Mount at 90° |
| 3@120° | 3-way Pole Mount at 120° |
| 4 | 4-way Pole Mount |
| W | Wall Mount |

DISTRIBUTION

<u>Flat Lens (Full Cutoff)</u>		<u>Sag Lens (Cutoff)</u>	
3XVF	Type III	3XVS	Type III
5XVF	Type V	5XVS	Type V

WATTAGE

400MH	400PSMH	400HPS
1000MH ¹	750PSMH	750HPS
	875PSMH	
	1000PSMH	

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

1. 1000W Luminaires Require E-37 or BT-37 Reduced Jacketed Lamp.

VOLTAGE

120
208
240
277
347
480

FINISH

BRP	Bronze Paint
BLP	Black Paint
WP*	White Paint
NP*	Natural Aluminum Paint
OC*	Optional Color Paint (Specify RAL designation ex: OC-RAL7024)
SC*	Special Color Paint (Specify. Must supply color chip)

* Contact factory for availability of White (WP), Natural Aluminum (NP), Optional (OC) and Special (SC) colors

OPTIONS

EHSS	External House Side Shield
LF	In-Line Fusing

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A Genlyte Company

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79115-139/0507

FORM TEN SQUARE

HPV SERIES - HIGH PERFORMANCE VERTICAL

SPECIFICATIONS

GENERAL: Each Gardco HPV Luminaire is a sharp cutoff luminaire for high intensity discharge lamps. Internal components are totally enclosed, rain-tight, dust-tight, and corrosion resistant. No venting of the optical system or electrical components is required or permitted. Lamping requires no lifting or hinging of the luminaire housing, disturbing wiring or exposing uninsulated live parts.

HOUSING: The housing wrapper is one-piece dieformed aluminum with an integral reinforcing spline and no welded corners. Silicone seals provide a weathertight seal at all points of material transition.

ARM: Extruded aluminum arm is secured to fixture by contractor.

LENS: A 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. A sag glass lens is provided on vertical lamp cutoff luminaires and a flat glass lens is provided on vertical lamp full cutoff luminaires. Stainless Steel spring hinge pins permits access to the luminaire without tools.

OPTICAL SYSTEMS: The segmented reflector system consists of highly specular aluminum facets precisely aligned to achieve specified photometric distributions. The entire optical system is field rotatable in 90° increments without tools.

Optical systems feature a field adjustable lamp socket. In the lower socket position, optics provide cutoff performance, and require a sag glass lens. When the socket is in the upper position, with a flat glass lens, the optics produce a distribution providing full cutoff performance.

Luminaires ship from the factory with the socket in the upper position.

Luminaires ordered with the 5XVF and 3XVF optical systems ship from the factory with a standard flat glass lens and door frame. Luminaires ordered with the 5XVS and 3XVS optical systems ship from the factory with a standard sag glass lens and door frame.

Luminaires are easily converted in the field by changing the lens and socket position. For a flat glass full cutoff luminaire, a flat glass lens and door frame with the socket in the upper position are needed. For a sag glass cutoff luminaire, a sag glass lens and door frame with the socket in the lower position are required. Maximum performance with a sag glass lens requires the socket to be placed in the lower position. Conversion does not require replacement of the reflector assembly.

ELECTRICAL: Each high power factor ballast is the separate component type capable of providing reliable lamp starting to -20°F/-29°C. Entire ballast assembly is secured within the luminaire, above the reflector system. Metal Halide ballasts are medium regulation

autotransformer providing +10% power regulation with +10% variation from rated input voltage. 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 150° or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

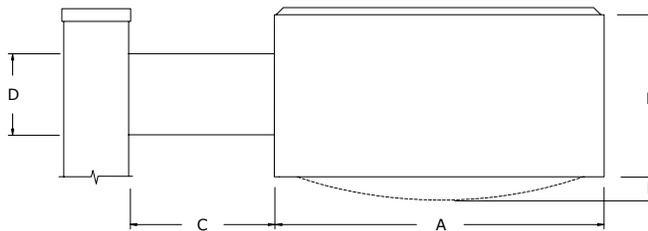
FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) powdercoat finish.

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



Width	B	C	D	E
23"	14.5"	12"	8"	2"
58.42 cm	36.83 cm	30.48 cm	20.32 cm	5.08 cm

	EPA's (ft ²)			Approximate Weight (lbs)
	Single	Twin	3/4	Single
Sag Lens	3.9 ft ²	7.8 ft ²	9.5 ft ²	104 lbs
	0.36 m ²	0.72 m ²	0.88 m ²	47 kg
Flat Lens	3.6 ft ²	7.3 ft ²	8.8 ft ²	90 lbs
	0.33 m ²	0.68 m ²	0.82 m ²	41 kg
Flat Lens w/HS Shield	4.9 ft ²	9.9 ft ²	12.5 ft ²	93 lbs
	0.46 m ²	0.92 m ²	1.16 m ²	72 kg

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