

HPV LUMINAIRE

HIGH PERFORMANCE VERTICAL LAMP



CLASSIC GARDCO FEATURES

The Gardco HPV High Performance Vertical Luminaire is the latest in high-wattage, high-performance, large area lighting. The luminaire is available in two sizes – HPV23, a pole-mounted 23" housing that accepts pulse start metal halide lamps up to 1000 watts and high pressure sodium lamps up to 750 watts; and HPV19, a smaller 19" housing that mounts on pole or wall and accepts lamps of up to 400 watts. Both HPV configurations include all of the classic features and benefits you've come to expect from Gardco luminaires.

Quality Construction

The housing of the Gardco HPV Series is constructed from high-quality die formed aluminum. The finish is a fade- and abrasion- resistant TGIC powdercoat designed to withstand even the harshest conditions. All points of entry are fully sealed and gasketed to prevent intrusion from dirt, insects and other contaminants.

Toolless Access

The doorframe on the HPV Series is natural anodized extruded aluminum with the memory-retentive extruded silicone gasket system that has kept Gardco products securely sealed for more than 30 years. HPV has a stainless steel hinge to provide complete access to the housing without the need for tools. The fully rotatable optical system hinges down to provide complete access to the unitized ballast tray.

Easy Conversion in the Field

Gardco HPV Series luminaires are converted from full-cutoff to cutoff by simply changing the lens and socket position. For a full-cutoff luminaire, a flat glass lens assembly is needed, with the lamp socket placed in the full cutoff position. For maximum performance in a cutoff luminaire, HPV uses a sag lens combined with the socket placed in the sag lens cutoff position. Conversion does not require replacement of the reflector assembly or housing, ensuring that it can be done quickly and easily right in the field.





Dark Sky Friendly

Utilizing a flat glass lens, Gardco XVF optics provide excellent full cutoff performance to economically cover large outdoor areas, while improving site visibility and minimizing light trespass and pollution. XVF optics are the ideal choice for large areas such as retail shopping centers.

If glare is less of a concern, the HPV Series can include the XVS or XVP optics, with the socket placed in the sag lens cutoff position. These sag lens versions feature a minimal depth of just 2-3" below the housing, provide cutoff performance, and deliver maximum area coverage.

High-Performance Optics

The Gardco HPV Series features the new Gardco XV optical system, which applies the technology of Gardco's revolutionary Form 10X optics to vertical lamp luminaires. The HPV Series is available in IES Types III, IV and V. No matter the configuration, the result is excellent performance in any conditions.

External Houseside Shield

If site requirements dictate that light be severely restricted at the property line, specify the new Gardco External Houseside Shield (EHSS) for the HPV Series. This innovative shield follows the luminaire aperture, rather than the pole, to provide a minimized shield profile and Effective Projected Area (EPA) while providing maximum rear light cutoff.

The design ensures that maximum lateral throw is not compromised so that luminaire spacing along the perimeter can be as wide as possible. Best of all, the External Houseside Shield can be installed on either a sag lens or a flat glass lens doorframe, and can easily be added in the field, if necessary. It's just another way that the Gardco HPV Series stands apart.

ORDERING

Example	PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
	HPV23	1	5XVF	400PSMH	277	BRP	EHSS
	HPV19	1	Single Assembly	<i>Flat Lens (Full Cutoff)</i>	HPV19	BRP	F¹
	HPV23	2	Twin @ 180°	3/4XVF²	175MH	BLP	LF
		2@90	Twin @ 90°	5XVF	250MH	WP*	PC¹
		3	Triple @ 90°	<i>Sag Glass Lens (Cutoff)</i>	400MH³	NP*	PCR¹
		3@120	Triple @ 120°	3/4XVS²	1000PSMH	OC*	PCR¹
		4	Quad Assembly	5XVS	175PSMH	<i>Specify RAL designation. Ex. OC-RAL7024</i>	EHSS
		W	Wall Mount	5XVS	400HPS	SC*	EHSS
		WA	Wall Mount w/Arm	<i>Sag Polycarbonate Lens (Cutoff)</i>	250PSMH	<i>Specify. Must supply color chip.</i>	QS¹
				3/4XVP^{1,2}	320PSMH³		QST¹
				5XVP¹	350PSMH³		MF¹
				400PSMH³	400PSMH³		MU¹
				250HPS			AP¹
				400HPS			AT¹
							PTF2¹
							PTF3
							PTF4

1. Available with HPV19 only.

2. Luminaire is Type IV, but with wide lateral distribution typical of a Type III. Internal house side shield included standard.

3. Requires E28 / BT28 mogul based reduced jacket lamp.

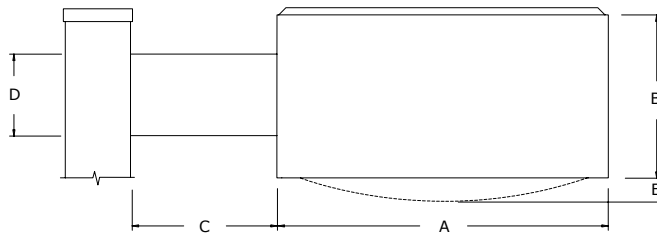
MH - Metal Halide
PSMH - Pulse Start Metal Halide
HPS - High Pressure Sodium

* Contact Factory for availability of WP, NP, OC and SC for HPV23.

Prior to ordering, consult Submittal Data Sheet on sitelighting.com for the most current information, notes and exclusions.

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



	A	B	C	D	E
HPV19	19.5	12	9	5	3
	48.26 cm	30.48 cm	22.86 cm	12.70 cm	7.62 cm
HPV23	23	14.5	12	8	2
	58.42 cm	36.83 cm	30.48 cm	20.32 cm	5.08 cm

HPV19	EPAs (ft ²)			Approximate Weight (lbs)
	Single	Twin	3/4	
Sag Lens	2.5 ft ²	4.8 ft ²	7.1 ft ²	75 lbs
	0.24 m ²	0.45 m ²	0.66 m ²	34.2 kg
Flat Lens	2.2 ft ²	4.3 ft ²	6.4 ft ²	65 lbs
	0.21 m ²	0.40 m ²	0.60 m ²	29.5 kg
Flat Lens w/EHSS House Side Shield	3.5 ft ²	6.9 ft ²	10.1 ft ²	68 lbs
	0.52 m ²	0.65 m ²	0.94 m ²	30.9 kg

HPV23	EPAs (ft ²)			Approximate Weight (lbs)
	Single	Twin	3/4	
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/EHSS House Side 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

Gardco Lighting is a Philips group brand

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