

PYRAMID

A R E A L I G H T I N G



GARDCO
LIGHTING



Gardco Lighting is a Philips group brand

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SCOPE



Gardco Pyramid is a monumental statement in form following function, with a classic housing shape conceived to surround a new optical system that redefines all that is possible with a vertical lamp. Available in a range of mounting configurations, distribution patterns and lamps up to 400 watts, Pyramid's aesthetics and performance set a new standard for vertical lamp luminaires.

Twin Shepherd's Hook Pendant

Finish Shown is RAL 5025 Pearl Gentian Blue

Patent pending on all Pyramid designs. Patent pending on Pyramid optics.



Matching classic style with unprecedented performance, the inspiration and genius of Pyramid is its revolutionary optical system, the Gardco XP. Unlike other optics featuring a vertical lamp, the Gardco XP allows for a flat glass lens, providing completely glare-free, full-cutoff illumination. This breakthrough maximizes Pyramid's lamp lumen output and pole spacing while minimizing energy consumption and operating costs.



Pendant Arm with Strut

Finish Shown is RAL 6021 Pale Green

Pendant Arm

Finish Shown is Pearl Copper RAL 8029

FORM



Like the ancient structures that have stood the test of time, Pyramid is expertly crafted and perfectly proportioned – a convergence of pleasing aesthetics and flawless functionality designed around its revolutionary high-performance optical system.

The Gardco XP optical system itself is a pyramid shape and so a similar shape was a natural fit for the housing. Subtle reveals and design elements minimize appearance while contoured edges and corners soften the form of the die cast housing. In all configurations the ballast is mounted outside the optical casting and inside a luminaire mounting arm or casting, helping to minimize the luminaire's scale and reduce heat.

Twin Dual Arm Pendant

Finish Shown is RAL 9007 Gray Aluminum. The same finish is shown on the Side Arm featured on the cover.

*Patent pending on all Pyramid designs.
Patent pending on Pyramid optics.*



Because the pyramid is a universal design element it adapts effortlessly to a wide architectural vocabulary – simply with subtle changes in mounting style. The Side Arm is elegant and understated. The Pendant Arm is sophisticated, an effect enhanced with the addition of the Strut. Finally, the Shepherd's Hook allows Pyramid to take on a more traditional look, taking it “back in time” to complement buildings and facilities that have a historic influence. Regardless of the style, all mounting methods are carefully crafted to include engineered details that allow for consistent and perfect alignment. Truly, a member of this luminaire family will be at home in virtually any application.



Side Arm

Finish Shown is RAL 5024 Pastel Blue

Side Arm

Finish Shown Pearl Copper RAL 8029

REVOLUTIONARY XP OPTICS



Pyramid is the first luminaire to feature Gardco's state-of-the-art XP optical system, which provides the many benefits of a vertical lamp while adding unparalleled precision, control and performance. Unlike horizontal lamps, which require an upright recovery box to capture and redirect light that would otherwise be lost, vertical lamps are naturally suited to efficiently and uniformly direct lumens out and away from the luminaire. The result: higher lumen output and efficiency with reduced energy and operating costs.

Historically, most architectural vertical lamp luminaires have required the use of a sag lens, which limits the ability to control glare and backlight trespass. Specifiers have long expressed a need for a solution to this dilemma — a high performance vertical lamp with a flat lens to deliver glare-free, full-cutoff performance. With the XP optic and the Pyramid luminaires, Gardco engineers have created an industry-changing response to their request.

Glare-Free Full Cutoff

Because the ballast is housed within the mounting arm, Pyramid leaves ample room to place a vertical lamp without requiring a sag lens. It uses a flat lens to attain wide, glare-free distributions with high-target-efficiency illumination.

Four High-Performance Distributions

Advanced 3D computer modeling was used to design the XP optical system's segmented reflectors, ensuring precise, uniform and practical illumination.

Highly Reflective Material

The anodized aluminum used for the XP optic has reflectivity of 95% or greater. The mirror-like finish substantially improves the efficiency of lumens redirected by the luminaire.

Lamp Options

Pyramid accepts pulse start metal halide and high pressure sodium lamps to 400 watts, and a range of ceramic metal halide lamps, including the Philips CosmoPolis™ and MasterColor® Elite energy-efficient white light systems.



CONSTRUCTION

The Pyramid shape evolved from its optical system – the revolutionary Gardco XP – and is naturally configured in one of the most pleasing architectural forms possible. With maximum performance delivered by the XP optic, the goal in designing the housing became to appeal to the first desire of architects: “Make it as small as possible,” and owners: “Make it as attractive, strong and efficient as possible.” The resulting shape does just that, providing unique and subtle design elements and ensuring that in both form and function, Pyramid is destined to be a classic.



Architectural Details

Soft contours and subtle reveals add unique design elements and minimize the housing appearance, without detracting from the luminaire's classic shape.

Long-Lasting Finishes

The finish is a fade- and abrasion-resistant, electrostatically applied, thermally cured TGIC polyester powdercoat. Standard colors feature the lightly textured Gardco finish. Custom colors may vary in texture, so please consult factory.



Easy Component Access

Four easily accessed captive screws secure the lamp and optic, making service quick and easy. The door hinges to one side to prevent the door from falling unexpectedly, and the entire door frame is easily removed if desired. A similar setup secures the ballast.



Rotatable Optical System

The XP optical system is rotatable in 90-degree increments to enable pole orientation and light distribution to be independent of one another. It also enables easy reorientation, should traffic patterns change.



Weather-Protected Construction

The optical chamber is completely sealed with Gardco's memory-retentive silicone gaskets to protect every point of entry from moisture, dirt and insects.

Flat Lens

Pyramid's revolutionary optical system, the Gardco XP, allows the use of a flat lens, resulting in glare-free, full-cutoff illumination and precise optical control.



Separate Ballast Housing

In any configuration, the ballast is housed in the mounting arm, made of sturdy die cast aluminum. Separating the ballast allows for higher placement of the vertical lamp and is cooler, extending the ballast life. A wide range of electronic and magnetic ballasts are available, depending on the lamp.



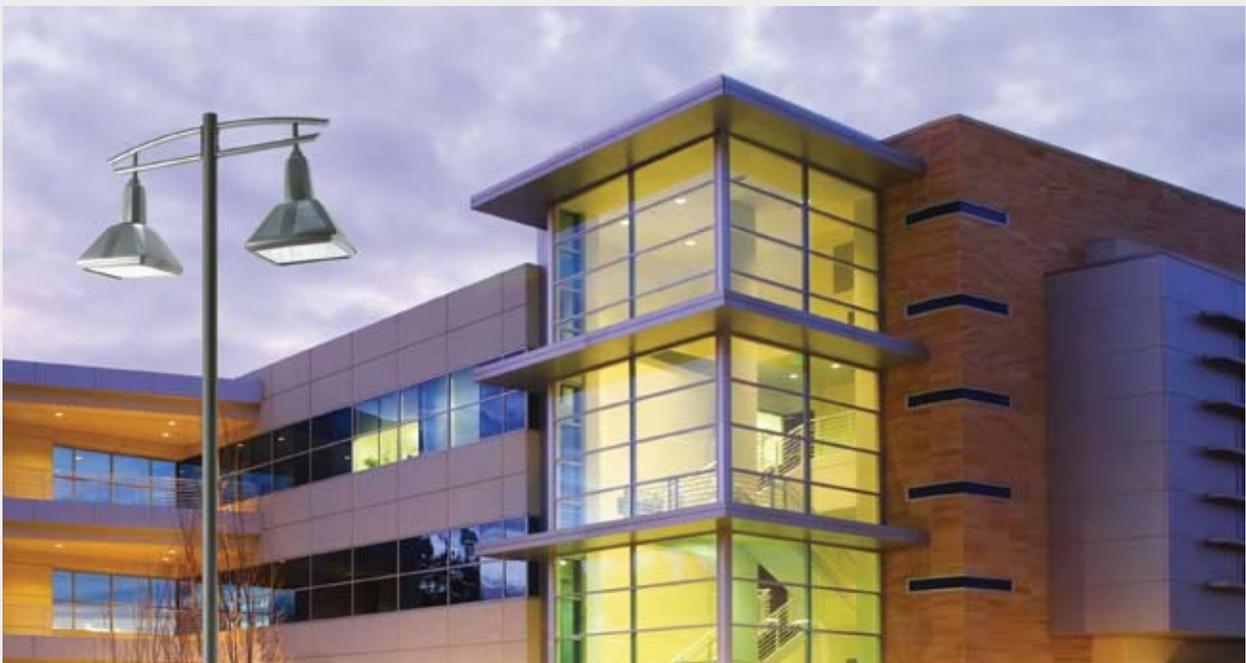
Multiple Mounting Options

In addition to the several mounting styles, Pyramid can mount to square and round poles at a range of mounting heights. It achieves smooth uniformity at low mounting heights without excessive glare.

APPLICATIONS



Pyramid's classic housing shape, multiple mounting configurations and powerful optical performance ensure that it will be at home in any architectural environment.



The Pyramid luminaire housing is a single size in all configurations, though it can achieve a wide variety of architectural styles simply through how one specifies the attachment to the pole.

PYRAMID

ORDERING

Example	PREFIX	MOUNTING	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
	PA22	1	2XP	70MH	120	BRP	F
	PA22	1	2XP	Pulse Start MH (Magnetic Ballast)	120*	BRP	F
22" Pyramid Side Arm Mount	2	Single Assembly	Type II, Vertical Lamp	70MH¹	208	BLP	LF
	2@90	Twin Assembly	Type III, Vertical Lamp	100MH²	240	WP	PC¹
	PPA22	Twin Assembly at 90°	Type IV, Vertical Lamp	150MH²	277	NP	Receptacle
22" Pyramid Pendant Arm Mount	3	Triple @ 90°	Type V, Vertical Lamp	175PSMH	347⁷	NGP	PCR
	3@120¹	Triple @ 120°		250PSMH	480⁷	BGP	Receptacle only
	PPS22	Quad Assembly		320PSMH³	200-277	LSP	POLY
22" Pyramid Pendant Arm Mount with Strut	4			350PSMH³	Available with CMPE, PSE, and EMC types only.	DSP	External Polycarbonate Shield
	PPD22			400PSMH³		LGP	HS
22" Pyramid Dual Arm Pendant Mount				250PSE^{3,5}	UNIV	DGP	Shield
	PSH22			320PSE^{3,5}	120v through 277V, 50hz to 60hz, available CMHE types only.	RBP	QS¹⁰
22" Pyramid Shepherd's Hook Pendant Mount				350PSE^{3,5}		OC	QST¹⁰
				400PSE^{3,5}		SC	PTF2¹
							PTF3¹
							PTF4¹
							WG

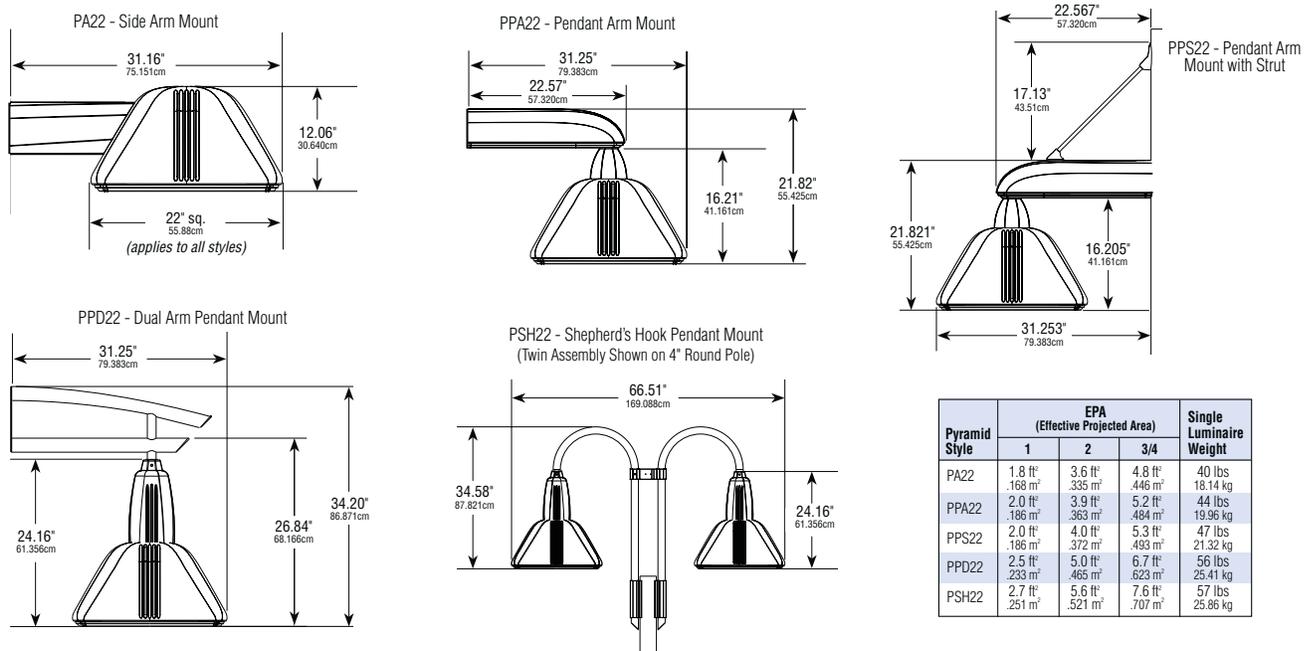
1. Not available in PSH22.
 2. 150 watt MH and below are Pulse Start by design.
 3. Requires E28/BT28 lamp.
 4. Electronic lamp and ballast dedicated system.
 5. 200 through 277V only.
 6. CMHE types feature an electronic MH ballast that accepts 120V through 277V, 50hz to 60hz, input.
 7. 347V and 480V not available with CMHE, CMPE, PSE or EMC types.
 8. 120V not available in CMPE, PSE or EMC types.
 9. Not available with 480V.
 10. See QS/QST Table.
 11. Not available in 120° mounting configurations.
 Not available with PPS22 or PPD22.
 12. Only available with PA22.

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

(Note 10) QS / QST Table	
HID Lamp Watts	Maximum Quartz Lamp Watts
175 watts or less	100 watts
Above 175 watts	150 watts

Garco 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



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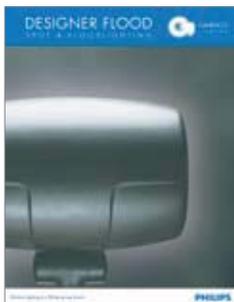
Form Ten Round



Gardco Scence



Floodlight



Step and Aisle Lights



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