

CAT#:	Job:	Type:
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Features

Built for superior LED performance packed with features

- Ultimate solution in pathway, roadway, and parking applications
- Ultra-Slim low profile design, leads the industry with a unique visual appearance
- The Viper's unique design offers an added advantage in thermal management thereby providing even longer life of the high wattage LED configurations while its unique visual appearance is sure to complement the both new and existing architecture.
- Aerodynamic body
- Contributes to a 'Green' environment through power savings
- 103 lm/w efficiency
- 2 sizes (VP-S and VP-L) offer a total appearance in all applications
- 9 wattages from 50W up through 280W of LED efficiency
- 6 lighting distributions puts light where it is needed, not wasted
- LifeShield thermal circuit protection insures optimum LED performance
- 5 mounting options

Certifications/Listings



Ordering Information

VP-L	96NB-280	5K	5K	UNV	PEC-TL	SF2	BB
Model	Engine Watts	Color Temp.	Optics	Voltage	Electrical Options	Mounting	Color
VP-S Small	22NB-50	3K 3000K	T2 Type II	UNV 120-277	PEC-TL	SF2	BB Black
VP-L Large	22NB-70	4K 4000K	T3 Type III	347	Twistlock photocell	2-3/8" OD slip-filter	BZ Bronze
	30NB-70	5K 5000K	T4 Type IV	480	2PF	PK2	BW White
	30NB-90		T5R Rectangular	12VDC	Dual power feed	2-3/8" Adjustable knuckle	BG Green
	48NB-110		T5QW Square Wide	(consult factory)		RA	BY Gray
	60NB-135		T5QM Square Medi			Rectangular arm	MB Metallic bronze
	64NB-135		T5W Round Wide			USA	MT Metallic titanium
	64NB-190					Up-swept arm	
	80NB-180					WB	
	80NB-235					Wall bracket	
	96NB-220						
96NB-280							

Specifications

General:

• The Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS and with five different mounting options for applications in a wide variety of new and existing installations. Luminaires are suitable for wet locations

Bezel Optic System:

• Each Viper luminaire is supplied with a one piece optical cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel. The cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system. Two-piece silicone and micro-cellular polyurethane foam gasket ensures a weather-proof seal around each individual LED.

The optical cartridge is secured to the die cast housing with fasteners. The optics are held in place without the use of adhesives. The cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

Housing and LED Thermal Management:

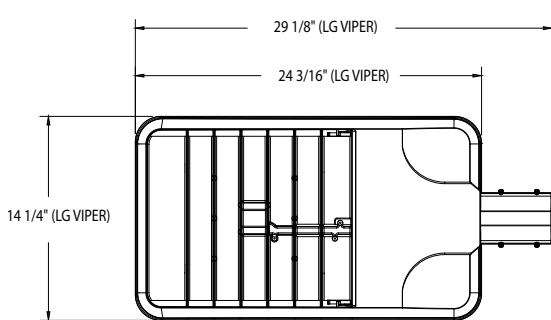
• The Viper's monolithic housing design creates over 4.5 square feet (small Viper) or 7.7 square feet (large Viper) of heat-sinking surface area. Vertical fins, combined with flow-through openings prevent sediment and moisture buildup on critical heat sinking surfaces without the need for gates, screens or other debris control tactics. The Viper housing, electrical compartment and fitter are made from die cast aluminum that is per-treated and powder coated to meet the most rugged industry standards. The finish is corrosion resistant to meet ASTM-B-117, resists cracking or loss of adhesion per ASTM D522, resists surface impacts of up to 160 inch-pound. All external hardware is corrosion resistant. The housing serves as a heat-sink for the LED bezel with a separate compartment for the drivers.

Electrical Assembly:

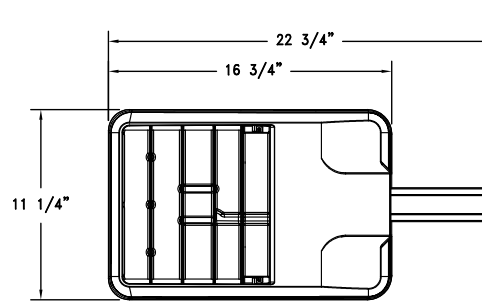
• The fixture's electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power corrections. The housing is designed for an optional twist lock photo control receptacle.

Accessibility:

• Although the Viper luminaire is designed to operate for many years without maintenance, accessibility is a key component in its design. The drivers are mounted on a removable door that is secured with key-slotted screws and hinges down for convenient access. The drivers are field replaceable using disconnects.



VP-L (Viper - Large) - shown with 2" slip fitter (SF2)



VP-S (Viper - Small) - shown with rectangular arm (RA)

Performance Summary

Engine	Wattage	Delivered Lumens	LPW	TM21 Reported L95/85C
VP-S-22NB	50	4700-5300	93-103	60,000
VP-S-22NB	70	5780-6540	82-93	60,000
VP-S-30NB	70	6408-7250	91-103	60,000
VP-S-30NB	90	7700-8717	85-97	60,000
VP-S-48NB	110	9864-11159	87-101	60,000
VP-S-60NB	135	12000-13000	88-96	60,000
VP-L-64NB	135	12500-13900	93-103	60,000
VP-L-64NB	190	16500-18000	86-95	60,000
VP-L-80NB	180	17000-19000	93-103	60,000
VP-L-80NB	235	20000-22500	86-95	60,000
VP-L-96NB	220	20500-22460	93-103	60,000

All performance data has been acquired by physical test reports conducted to LM-79-08 standards in a controlled testing laboratory.