



INTRODUCTION

FEATURES-SPECIFICATIONS

CERTILITE® V
The Logical Choice

KILLARK® CertiLite® V Series sets a new standard for industrial grade HID luminaires. Designed for installations where moisture, dirt, dust, corrosion and vibration may be present, these fixtures are suitable for NEMA 3 and 4X areas and where wind, water, snow or high ambients can be expected. They also can be used in locations made hazardous by the presence of flammable vapors and gases or combustible dusts, as defined by the NEC®. Typical applications include manufacturing sites, chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and warehouses.

Standard Materials:

- Ballast tank and splice box – corrosion resistant copper-free aluminum alloy with baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection.
- All external hardware – 316 stainless steel.
- Guards – painted copper-free aluminum alloy or 316SS for 7-3/4" glass optics and Enclosed Reflectors.
- Spin-top Refractor Guards are Plated Steel.
- Reflectors – lightweight, corrosion resistant fiberglass reinforced polyester, or copper-free aluminum.

Additional Features:

- Seven mounting splice box types; Pendant, Flex Pendant, Ceiling, Wall bracket, Cone Top, 25° Angle Stanchion, Straight Stanchion – in a variety of entry sizes, including M20 for the VMX ceiling style.
- Quartz auxiliary, HPS instant restart, Ballast Protectors
- Minimum starting temperature: HPS – 40°C; MV, MH & MHP – 30°C
- Normally shipped as components for fast delivery, or may be ordered factory assembled with or without lamps.
- Options for fuses and quick disconnect



Compliances

- UL1598 Standard for luminaires
- UL1598A Marine type luminaire
- UL-844 Standard for lighting fixtures for hazardous locations
- CSA C22.2 no. 137-M1981 electric luminaires for use in hazardous locations

Class I, Div. 2, Groups A,B,C,D
Class I, Zone 2, Groups IIC, IIB, IIA
Class II, Div. 1 & 2, Groups E,F,G
Class III
Suitable for wet locations
NEMA 3, 4, 4X
IP66

US LISTED - File E10514 (Hazardous & Marine)

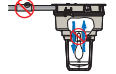
Certified - File LR11713

NR Restricted Breathing Option

Class I, Zone 2 AEx nAnR

Class I, Zone 2 Ex nR

- Enclosed and gasketed
- NEMA 3, 4X IP66
- UL 60079-15 - Electrical apparatus for Explosive Gas Atmospheres with Type of Protection "n" (Restricted Breathing and non-sparking).

FEATURES	BENEFITS
 Swing-Barrel Nut Patented Tank Mounting System	• Stainless-to-Stainless securement • Takes load off during installation • Uses ordinary tools • Saves time and labor
 Range of ballast tanks	Cover a wider range of wattage sizes and socket types (will include five total) for maximum user selection flexibility
 Sealed Optic Zone 2 AEx nAR Restricted Breathing (suffix NR)	NO External Seals. Lower T-codes, Suitable for Class I Div. 2 Classified areas per the NEC®
 All glass refractors	Compact (5-1/2" thread size, types I & V) Standard (7-3/4", thread size, types I, III, V) Enhances user selection flexibility
 "EZ" mount adapter	Easier Maintenance, saves labor, move fixture from the ladder to the workbench
 Photo controls- Class I Div. 2 / N4X areas	Available as Field or Factory Installed to save energy when light not required
 Earthquake Tab -Built-in attachment point for safety cables	Safety: Secures fixture to structure in case of conduit failure. "3rd hand" accessories for lamp change out. See L53 for more info.
 "FULL CUTOFF" & CUTOFF Optics	For "Dark Sky" Requirements. Helps to minimize offending light pollution.
 VMEP40 "Food Optic"	Expanded Offering for Food or Grain Handling Applications to minimize contamination
 NEMA Decals 15 17 17P	Easier Maintenance, Saves labor "Have the right lamp in hand before going up the ladder".
 Expanded lamp types and wattages	Philips® QL Induction type and 600Watt HPS available for long life or high lumen requirements
 CertiLite Software	Used to determine number of fixtures required and their proper layout for various tasks and applications.

Philips® is a registered trademark of Koninklijke Philips Electronics N.V.



VM3/VM4 CATALOG ORDERING LOGIC

CertiLite® Catalog Number Logic; 50-250 Low Wattage (Mogul Base) HID Fixtures

Series Constant — VM Optic Thread Size — 0 0 00 0 0 0 00 3 – 5 1/2" 4 – 7 3/4" Lamp Type — S – HPS (50, 70, 100, 150) H – MH (70, 100, 175, 250) P – MHP (125Ⓢ, 150, 175, 200) Lamp Wattage — 05 – 50W, (HPS) 07 – 70W, (HPS, MH) 10 – 100W, (HPS, MH) 12 – 125W, (MHPⓈ) 15 – 150W, (HPS, MHP) 17 – 175W, (MH, MHP) 20 – 200W, (MHP) 25 – 250W, (MH)Ⓢ Voltage @ 60 Hertz ⑨ — 0 – Quadri-Volt (120, 208, 240, 277) 5 – 480V 6 – Tri - 120, 277, 347 (Canada) 7 – 220V 8 – 220/240 50 Hz 35 – 230V (HPS) Mounting Type — A – Pendant F – Flexible Pendant X – Ceiling B – Wall Bracket C – Cone Top E – EZ Mount Adapterk D – Stanchion 25° S – Stanchion Straight 90° N – None (mount ordered separately)Ⓢ	175-250W Old Style MH are Export only EISA LAW Entry (Mounts available) 2 – 3/4" NPT (A,B,C,X) 3 – 1" NPT (A,B,C,X) 4 – 1 1/4" NPT (D,S) 5 – 1 1/2" NPT (D,S) 6 – 3/4" NPT 5-Hub (X) 7 – 1" NPT 5-Hub (X) 8 – M20 4-Hub (X) 9 – M20 5-Hub (X) Z – EZ Mount Adapterk N – None (mount ordered separately)Ⓢ	Optic GL – Globe (VM3, VM4) R1 – Type I Glass Refractor (VM3, VM4) R3 – Type III Glass Refractor (VM4) R5 – Type V Glass Refractor (VM3, VM4) ER – Enclosed Reflector (VM4) EP – Polycarbonate Shielded Enclosed Reflector (VM4) S2 – Type II 12" Spin-Top Refractor (VM3, VM4)Ⓢ S8 – Type V 8" Spin-Top Refractor (VM3) S5 – Type V 12" Spin-Top Refractor (VM3, VM4) P5 – Type V 12" Plastic Spin-Top Refractor (VM3-175W Max.) FG – SiliconemCoated Globe (VM3, VM4) TG – Teflon®ⓈCoated Globe (VM3, VM4) T1 – Teflon®ⓈCoated Globe Type I Glass Refractor (VM3, VM4) T3 – Teflon®ⓈCoated Globe Type III Glass Refractor (VM4) T5 – Teflon®ⓈCoated Globe Type V Glass Refractor (VM3, VM4) T2 – Teflon®ⓈCoated Type II 12" Spin-Top Refractor (VM3, VM4) T8 – Teflon®ⓈCoated Type V 8" Spin-Top Refractor (VM3) TV – Teflon®ⓈCoated Type V 12" Spin-Top Refractor (VM3, VM4) Guard — G – Guard (Globes & Glass refractors) N – No GuardⓈ	Options IR – Instant Restrike - 50-150 HPSⓈ QA – Quartz AuxiliaryⓈ BP – Ballast Protector - 70-150 HPSⓈ F1 – Fusing 120VⓈ F2 – Fusing 208VⓈ F3 – Fusing 240VⓈ F4 – Fusing 277VⓈ F5 – Fusing 480VⓈ F6 – Fusing 347VⓈ F7 – Fusing 220VⓈ F8 – Fusing 240V 50 HzⓈ P1 – Photocell 120VⓈⓈ P2 – Photocell 208-277VⓈⓈ P3 – Photocell 347VⓈⓈ Q1 – QD Wired to 120VⓈ Q2 – QD Wired to 208VⓈ Q3 – QD Wired to 240VⓈ Q4 – QD Wired to 277VⓈ Q5 – QD Wired to 480VⓈ Q6 – QD Wired to 347VⓈ Q7 – QD 220VⓈ Q8 – QD 240V (50Hz)Ⓢ TBx – Terminal Blocks x= Voltage Code AS – Assembled Fixture with Standard Lamp AD – Assembled Fixture with Dual Arc Tube Lamp 70, 100, 150 HPS onlyⓈ AN – Assembled, no lamp CP – Component Pack-No Lamp CS – Component Pack with Standard Lamp LS – Standard Lamp Supplied LD – Dual Arc Tube Lamp Supplied for 70, 100, 150 HPS only Reflector S – VM Fiberglass Dome Reflector A – VM Fiberglass Angle Reflector D – Deep White Reflector Z – Deep Alzak Reflector
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① Special order lamp type/wattage not shown in grids, minimums apply.

② Completes as "EZ", conduit mounting boxes ordered separately.

④ Silicone coated globe for additional impact protection.

⑤ Teflon® is a registered trademark of DuPont, Inc. Consult factory for available lamp and voltage combinations.

⑥ Restricted Breathing - See L84 for more information.

⑦ Order Guards for Spin-Tops & VMER40 separately.

⑧ QA not suitable for Class I, Div. 2/Zone 2 applications; consult factory for other hazardous applications.

⑨ Fusing not for Marine or Canadian installations.

⑩ Photo cells for Class I, Div. 2 only, or C1Z2 nR not Class II. Ⓢ

⑪ Field connection to proper tap in case of Multitap Ballasts.

⑫ Not for use with wall or straight (90°) Stanchion.

⑬ QD = Quick Disconnect. Allows easy tank removal for maintenance.

⑭ Electrician simply unplugs de-energized ballast from supply circuit. 220V 60Hz or 230V 50Hz used with QA-requires VM5 tank.

⑮ IR and BP cannot be ordered together.

⑯ Not available with IR or QA. Ⓢ



METAL HALIDE PULSE, 150-200W MOGUL BASE HID



Stanchion 25°
w/ 5-1/2"
Globe & Guard



Stanchion Straight
w/ 5-1/2"
Refractor & Guard



Stanchion 25°
w/ 7-3/4"
Globe & Guard



Stanchion Straight
w/ 7-3/4"
Refractor & Guard



Stanchion 25°
w/ Enclosed Reflector

VM 150 - 200 WATT METAL HALIDE PULSE STANCHION 25° ANGLE

DESCRIPTION				5-1/2" OPTIC THREAD SIZE ②			7-3/4" OPTIC THREAD SIZE ②			
WATTS	ANSI	HUB SIZE ③	VOLTAGE ④	GLOBE & GUARD	TYPE I GLASS REFRACTOR & GUARD	TYPE V GLASS REFRACTOR & GUARD	GLOBE & GUARD	TYPE I GLASS REFRACTOR & GUARD	TYPE V GLASS REFRACTOR & GUARD	ENCLOSED REFLECTOR
150	M102	1-1/2"	Quad Tri 480	VM3P150D5GLG	VM3P150D5R1G	VM3P150D5R5G	VM4P150D5GLG	VM4P150D5R1G	VM4P150D5R5G	VM4P150D5ERN
	M142			VM3P156D5GLG	VM3P156D5R1G	VM3P156D5R5G	VM4P156D5GLG	VM4P156D5R1G	VM4P156D5R5G	VM4P156D5ERN
				VM3P155D5GLG	VM3P155D5R1G	VM3P155D5R5G	VM4P155D5GLG	VM4P155D5R1G	VM4P155D5R5G	VM4P155D5ERN
175	M137	1-1/2"	Quad Tri 480	VM3P170D5GLG	VM3P170D5R1G	VM3P170D5R5G	VM4P170D5GLG	VM4P170D5R1G	VM4P170D5R5G	VM4P170D5ERN
	M152			VM3P176D5GLG	VM3P176D5R1G	VM3P176D5R5G	VM4P176D5GLG	VM4P176D5R1G	VM4P176D5R5G	VM4P176D5ERN
				VM3P175D5GLG	VM3P175D5R1G	VM3P175D5R5G	VM4P175D5GLG	VM4P175D5R1G	VM4P175D5R5G	VM4P175D5ERN
200	M136	1-1/2"	Quad Tri 480	VM3P200D5GLG	VM3P200D5R1G	VM3P200D5R5G	VM4P200D5GLG	VM4P200D5R1G	VM4P200D5R5G	VM4P200D5ERN
				VM3P206D5GLG	VM3P206D5R1G	VM3P206D5R5G	VM4P206D5GLG	VM4P206D5R1G	VM4P206D5R5G	VM4P206D5ERN
				VM3P205D5GLG	VM3P205D5R1G	VM3P205D5R5G	VM4P205D5GLG	VM4P205D5R1G	VM4P205D5R5G	VM4P205D5ERN

VM 150 - 200 WATT METAL HALIDE PULSE STANCHION STRAIGHT

DESCRIPTION				5-1/2" OPTIC THREAD SIZE ②			7-3/4" OPTIC THREAD SIZE ②			
WATTS	ANSI	HUB SIZE ③	VOLTAGE ④	GLOBE & GUARD	TYPE I GLASS REFRACTOR & GUARD	TYPE V GLASS REFRACTOR & GUARD	GLOBE & GUARD	TYPE I GLASS REFRACTOR & GUARD	TYPE V GLASS REFRACTOR & GUARD	ENCLOSED REFLECTOR
150	M102	1-1/2"	Quad Tri 480	VM3P150S5GLG	VM3P150S5R1G	VM3P150S5R5G	VM4P150S5GLG	VM4P150S5R1G	VM4P150S5R5G	VM4P150S5ERN
	M142			VM3P156S5GLG	VM3P156S5R1G	VM3P156S5R5G	VM4P156S5GLG	VM4P156S5R1G	VM4P156S5R5G	VM4P156S5ERN
				VM3P155S5GLG	VM3P155S5R1G	VM3P155S5R5G	VM4P155S5GLG	VM4P155S5R1G	VM4P155S5R5G	VM4P155S5ERN
175	M137	1-1/2"	Quad Tri 480	VM3P170S5GLG	VM3P170S5R1G	VM3P170S5R5G	VM4P170S5GLG	VM4P170S5R1G	VM4P170S5R5G	VM4P170S5ERN
	M152			VM3P176S5GLG	VM3P176S5R1G	VM3P176S5R5G	VM4P176S5GLG	VM4P176S5R1G	VM4P176S5R5G	VM4P176S5ERN
				VM3P175S5GLG	VM3P175S5R1G	VM3P175S5R5G	VM4P175S5GLG	VM4P175S5R1G	VM4P175S5R5G	VM4P175S5ERN
200	M136	1-1/2"	Quad Tri 480	VM3P200S5GLG	VM3P200S5R1G	VM3P200S5R5G	VM4P200S5GLG	VM4P200S5R1G	VM4P200S5R5G	VM4P200S5ERN
				VM3P206S5GLG	VM3P206S5R1G	VM3P206S5R5G	VM4P206S5GLG	VM4P206S5R1G	VM4P206S5R5G	VM4P206S5ERN
				VM3P205S5GLG	VM3P205S5R1G	VM3P205S5R5G	VM4P205S5GLG	VM4P205S5R1G	VM4P205S5R5G	VM4P205S5ERN

① See hazardous application data on pages L131 - L140 for limitations.

② Catalog numbers shown are with guard (except enclosed reflectors); to omit guard change ending G to N; e.g. VM3P150D5GLN

③ Catalog numbers shown are with 1-1/2" conduit openings, change 5 to 4 for 1-1/4"; e.g. VM3P150D4GLG.

④ Consult catalog logic for other available voltages.

⑤ Add suffix NR for restricted breathing; see page L84 for more information.