CERTILITE®V SERIES / HID & INDUCTION

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:

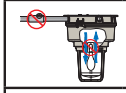
- Seven mounting splice box types; Pendant, Flex Pendant, Ceiling, Wall bracket, Cone Top, 25° Angle Stanchion, Straight Stanchion – in a variety of entry sizes, including M20 for the VMX ceiling style.
- Quartz auxiliary, HPS instant restart, Ballast Protectors
- Minimum starting temperature: HPS – 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 luminaries 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
c UL us LISTED - File E10514 (Hazardous & Marine)
c SP us Certified - File LR11713
NR Restricted Breathing Option
Class I, Zone 2 AEx nAnR UL
Class I, Zone 2 Ex nR SP

- 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.

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LIGHTING

CERTILITE® V SERIES

VM3/VM4 CATALOG ORDERING LOGIC

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

VM 0 0 00 0 0 0 00 0 0 (NR⑦) 00

Series Constant — VM

Optic Thread Size
3 – 5 1/2"
4 – 7 3/4"

Lamp Type
S – HPS (50, 70, 100, 150)
H – MH (70, 100, 175, 250)
P – MHP (125①, 150, 175, 200)

Lamp Wattage
05 – 50W, (HPS)
07 – 70W, (HPS, MH)
10 – 100W, (HPS, MH)
12 – 125W, (MHP①)
15 – 150W, (HPS, MHP)
17 – 175W, (MH, MHP)
20 – 200W, (MHP)
25 – 250W, (MH)⑮

175-250W Old Style MH are Export only EISA LAW

Voltage @ 60 Hertz ⓥ
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)③

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)③

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 – Poylcarbonate Shielded Enclosed Reflector (VM4)
S2 – Type II 12" Spin-Top Refractor (VM3, VM4)⑫
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®⑤Coated Globe (VM3, VM4)
T1 – Teflon®⑤Coated Globe Type I Glass Refractor (VM3, VM4)
T3 – Teflon®⑤Coated Globe Type III Glass Refractor (VM4)
T5 – Teflon®⑤Coated Globe Type V Glass Refractor (VM3, VM4)
T2 – Teflon®⑤Coated Type II 12" Spin-Top Refractor (VM3, VM4)
T8 – Teflon®⑤Coated Type V 8" Spin-Top Refractor (VM3)
TV – Teflon®⑤Coated Type V 12" Spin-Top Refractor (VM3, VM4)

Guard
G – Guard (Globes & Glass refractors)
N – No Guard⑦

Options
IR – Instant Restrike - 50-150 HPS⑮
QA – Quartz Auxiliary⑧
BP – Ballast Protector - 70-150 HPS⑮
F1 – Fusing 120V⑨
F2 – Fusing 208V⑨
F3 – Fusing 240V⑨
F4 – Fusing 277V⑨
F5 – Fusing 480V⑨
F6 – Fusing 347V⑨
F7 – Fusing 220V⑨
F8 – Fusing 240V 50 Hz⑨
P1 – Photocell 120V⑩⑪
P2 – Photocell 208-277V⑩⑪
P3 – Photocell 347V⑩⑪
Q1 – QD Wired to 120V⑬
Q2 – QD Wired to 208V⑬
Q3 – QD Wired to 240V⑬
Q4 – QD Wired to 277V⑬
Q5 – QD Wired to 480V⑬
Q6 – QD Wired to 347V⑬
Q7 – QD 220V⑬
Q8 – QD 240V (50Hz)⑬
TBx – Terminal Blocks
x= Voltage Code
AS – Assembled Fixture with Standard Lamp
AD – Assembled Fixture with Dual Arc Tube Lamp 70, 100, 150 HPS only⑯
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

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.* c SP us
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.* c SP us