HIGH WATTAGE – INTRODUCTION

Expanded wattage range and shallower depth VM2LB models

VM2LB with Globe/Guard

VM4LB with Globe/Guard

VM4LC with Flat Lens

LED TECHNOLOGY

CERTI*LITE* V LED

FEATURES-SPECIFICATIONS

Applications

CERTALITE® V VM4L LED fixtures are designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambients can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC/CEC.

Typical applications include manufacturing plants, food processing, certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Compliances

- UL-8750 for LED lighting
- UL-844 Standard for lighting fixtures for hazardous locations, Class I, Division 2; Class II, Divisions 1 and 2; Class III
- CSA C22.2 no. 137-M1981 electric luminairies for use in hazardous locations
- Enclosed and gasketed
- NEMA 3, 4X
- IP66 & Marine

Materials

- Ballast tank, splice box and cast guards corrosion resistant copper-free aluminum alloy
- Baked powder epoxy/polyester finish, electrostatically applied for complete, uniform corrosion protection
- All external hardware – stainless steel
- Reflectors – Polyester reinforced fiber glass or aluminum

LED Luminaire Features and Standards

- Traditional Industrial Appearance, Suitability, and Photometric Performance
- Wide variety of optics including globes, globes with reflectors, all-glass refractors, spin-top refractors and flat lens
- Swing-Barrel Nut patented tank mounting system
- Optional Mounting arrangements including Pendant, Wall, Ceiling, Stanchion and others
- VM4L LED Housings can be retrofitted to existing VM splice boxes; upgrade from HID sources
- VM2Lx housing is 1.56" shallower for low ceilings
- Crisp White Light for Excellent Color Rendering – Chromaticity 5000 K (CCT range); approx. 70 CRI
- Energy Savings – less than 130 Watts of Power

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, 4X
IP66
Marine Rated (US only)

Certified - File LR11713

IECEx Rated Models (VM4L with IEx suffix)
Ex nA IIC T4, Gc / Ex tb IIIC T83ºC Db
Tamp -40ºC ≤Ta≤+65ºC, IP66
IECEx Certificate QPS 15.0006
ATEX Pending

Contact Factory for other certification details

- Long Life – 50,000 - 55,000 maintenance free hours to 70% initial lumens
- Ambient suitability -40°C to 55°C
- Instant On – Including after power interruption
- World Voltage 120 – 277VAC 50/60Hz
- Solder-LESS LED Board Connections – Vibration Resistant
- Ability for Dual Drivers – Redundant Systems (built-in backup), or for additional energy savings half of fixture can be turned off
- LM80-08* Measurement of lumen maintenance for LED light sources (including TM-21)
- LM79-08* Certified "Absolute" Photometry, including Chromaticity Color for Solid State Lighting
- L70 Values – Industry Nomenclature for Hours of use to 70% of Initial Lumens
- Two LED internal heat sink styles
  » Bulb VM2LB/VM4LB
  » Concave VM2LC/VM4LC

* LM-xx + TM-21 are Illumination Engineering Society standards designed to promote uniformity in testing procedures among test labs and manufacturers. For more information go to www.ies.org

Swing-Barrel Nut (Patented)

1 Hang Fixture

2 Swing into Place

3 Tighten

LED INTERNAL Heat Sinks

Bulb style (VM4LB) Maximum lumens but has more glare at line-of-sight.

Concave style (VM4LC) for a compact profile. Recessed concave LED array produces less glare.

DLC QPL LISTED

Consult website for current list of approved luminaires

NEW! NON-GLASS

FOOD SUITABILITY

Non-Glass Polycarbonate 12" Flat Lens

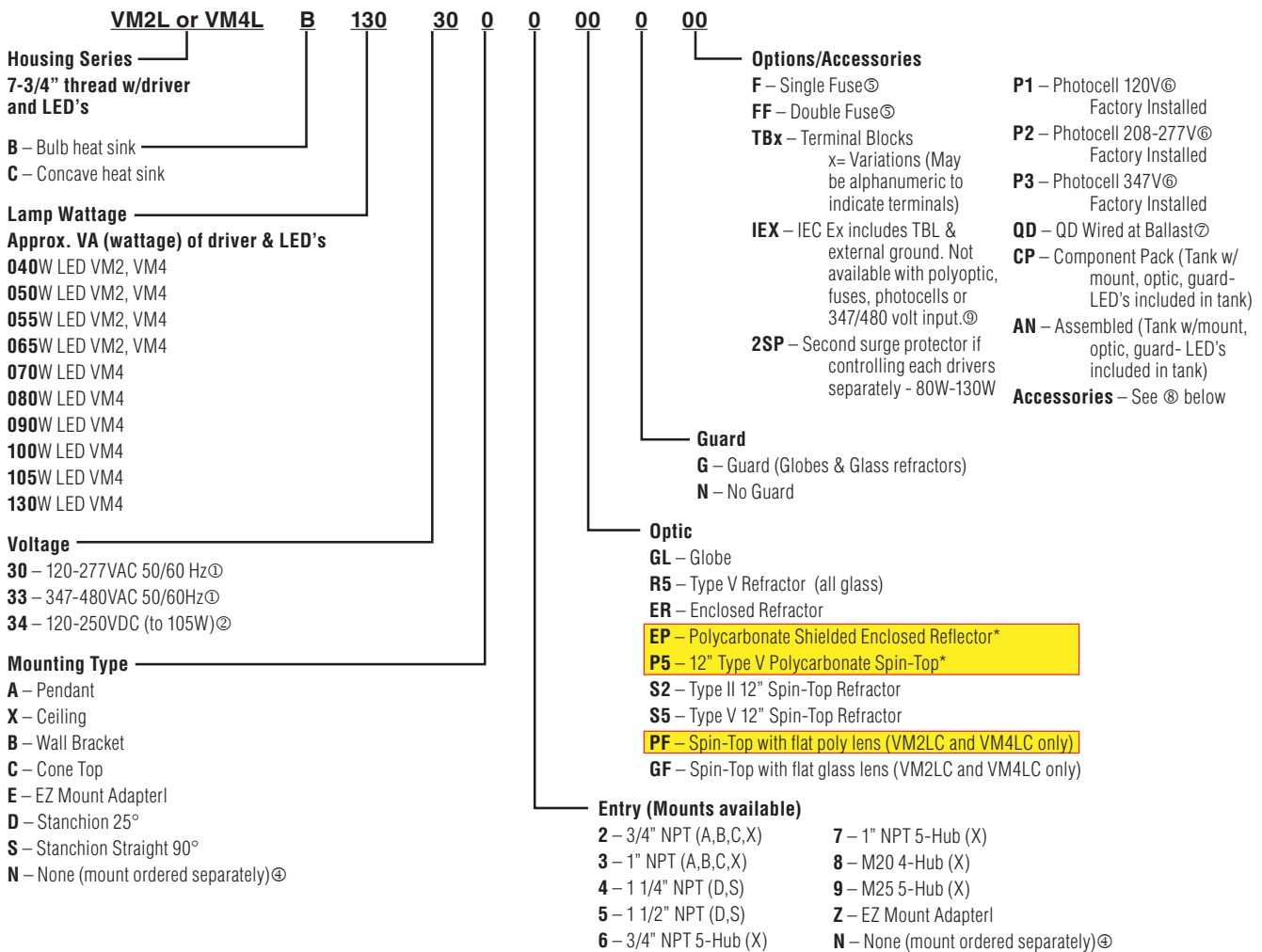Patented Design

KILLARK®

HIGH WATTAGE – CATALOG LOGIC

CERTILITE V
The Logical Choice

Killark high efficiency LED Luminaries require NO external heat sink which adds weight and collects dust and other contaminates

CertiLite®V LED Catalog Number Logic

VM2L or VM4L   B   130   30   0   0   00   0   00

Housing Series
7-3/4" thread w/driver and LED's

B – Bulb heat sink
C – Concave heat sink

Lamp Wattage
Approx. VA (wattage) of driver & LED's
040W LED VM2, VM4
050W LED VM2, VM4
055W LED VM2, VM4
065W LED VM2, VM4
070W LED VM4
080W LED VM4
090W LED VM4
100W LED VM4
105W LED VM4
130W LED VM4

Voltage
30 – 120-277VAC 50/60 Hz①
33 – 347-480VAC 50/60Hz①
34 – 120-250VDC (to 105W)②

Mounting Type
A – Pendant
X – Ceiling
B – Wall Bracket
C – Cone Top
E – EZ Mount Adapterl
D – Stanchion 25°
S – Stanchion Straight 90°
N – None (mount ordered separately)④

Options/Accessories
F – Single Fuse⑤
FF – Double Fuse⑤
TBx – Terminal Blocks
    x= Variations (May be alphanumeric to indicate terminals)
IEX – IEC Ex includes TBL & external ground. Not available with polyoptic, fuses, photocells or 347/480 volt input.⑨
2SP – Second surge protector if controlling each drivers separately - 80W-130W

P1 – Photocell 120V⑥ Factory Installed
P2 – Photocell 208-277V⑥ Factory Installed
P3 – Photocell 347V⑥ Factory Installed
QD – QD Wired at Ballast⑦
CP – Component Pack (Tank w/ mount, optic, guard- LED's included in tank)
AN – Assembled (Tank w/mount, optic, guard- LED's included in tank)
Accessories – See ⑧ below

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

Optic
GL – Globe
R5 – Type V Refractor (all glass)
ER – Enclosed Refractor
EP – Polycarbonate Shielded Enclosed Reflector*
P5 – 12" Type V Polycarbonate Spin-Top*
S2 – Type II 12" Spin-Top Refractor
S5 – Type V 12" Spin-Top Refractor
PF – Spin-Top with flat poly lens (VM2LC and VM4LC only)
GF – Spin-Top with flat glass lens (VM2LC and VM4LC only)

Entry (Mounts available)
2 – 3/4" NPT (A,B,C,X)   **7** – 1" NPT 5-Hub (X)
3 – 1" NPT (A,B,C,X)   **8** – M20 4-Hub (X)
4 – 1 1/4" NPT (D,S)   **9** – M25 5-Hub (X)
5 – 1 1/2" NPT (D,S)   **Z** – EZ Mount Adapterl
6 – 3/4" NPT 5-Hub (X)   **N** – None (mount ordered separately)④

① 40W, 50W, 55W, 65W, 70W single driver; 80W -130W dual drivers
② 80W-105W only (also 120-277VAC 50/60HZ)
③ Completes as "EZ", conduit mounting boxes ordered separately - See catalog grids.
④ Completes as NN-Mount ordered separately.
⑤ Fusing not for Marine or Canadian installations.
⑥ Photo cells for Class I, Div. 2 only.
⑦ QD = Quick Disconnect. Allows easy tank removal for maintenance. Electrician simply unplugs tank from mount for fixture relocation or repair due to impact damage.

⑧ Accessories - Shown for ordering convenience (shipped separately)
    S   VMPSD40   Fiberglass White Reflector
    A   VMPA40   Fiberglass ANGLE White Reflector
    D   HRD400   Deep White Reflector
    Z   HRD400ALZ Deep Alzak Reflector
⑨ IEx option only available with VM4L and requires glass optics

*Non-glass Group G Food Processing Suitability