HUBBELL

KILLARK®

INSTALLATION, OPERATION & MAINTENANCE DATA SHEET

VM4L SERIES LED LUMINAIRE FLOOD

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CAUTION:

Before installing, make sure you are compliant with area classifications, failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code.

Make sure that the circuit is de-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

ATTENTION

Avant d'installer le luminaire, s'assurer que le luminaire est conforme à la classification des zones, le non-respect de cette règle risque d'entraîner des dommages corporels et / ou matériels. Ne pas tenter d'entreprendre l'installation avant d'être familiarisé avec les procédures suivantes. Toute installation doit être conforme au code électrique local et / ou national et être effectuée par un électricien qualifié.
Veiller à ce que le circuit soit mis hors tension avant de commencer l'installation ou la maintenance.
Vérifier si le luminaire est mis à la terre. S'il n'est pas mis à la terre il pourrait causer des risques de choc électrique susceptibles d'entraîner des blessures graves ou la mort.

Technical information, advice and recommendations contained in these documents is based upon information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use only by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of Killark, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.

KILLARK® Chalmit Victor Lighting Vantage® Technology RigPower HAWKE International

3940 Dr. Martin Luther King Drive
St. Louis, MO 63113

Luminaires are designed to be installed in Hazardous Locations: Class I Division 2, Class II Division 1, Class I Zone 2 or IEC Zone 2. IEC 60079-15 and IEC 60079-31 Zone 2 type of protection Ex nA (non-sparking), Zone 21 type of protection Ex tb (dust). IECEx certificate IECEx QPS 15.0006. Ingress protection IP66.

NOTE: Due to the surge protection provided in the fixture to protect the internal electronics and LEDs, a branch circuit with the LED fixture may false fail a megohmmeter test (sometimes referred to as a megger test). If a megohmmeter test is required, the LED fixture should be removed from the branch circuit.

Multiple fluorescent or LED fixtures attached to a single Ground Fault Circuit Interrupter (GFCI) may cause nuisance tripping of the GFCI. Regulatory agencies allow a small amount of leakage current because of the circuitry required to mitigate possible issues with electromagnetic compatibility (reference UL8750 and EN61347). The summation of these leakage currents from multiple fixtures may be enough to trip a GFCI.

For Class I, Division 2 / Class II, Division 1 / Class I, Zone 2 Hazardous Locations, use rigid conduit or cable and connectors / glands rated for Class I, Division 2 Groups BCD (or IEC Zone 2 IIC, IEC Zone 21 IIIC) hazardous areas.

Pour les endroits dangereux Classe I, Division 2 / Classe II, Division 1 / Classe I, Zone 2 utiliser des conduits rigides.

Do not attempt installation until you are familiar with the following procedures. All installations/maintenance to be performed by a qualified electrician and must comply with all applicable local and / or National Electrical Code.

IMPORTANT

1. Luminaire is to be energized in hazardous locations only after Ballast housing has been secured to Mount (Splice box) and Optics (Globe or Refractor) installed as indicated in this document.
2. Verify that luminaire is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.
3. Refer to luminaire nameplate for supply voltage, ambient, supply wire, and other important data and information.
4. All unused conduit openings must be plugged. Pipe sealant may be applied to threads in plugs and securely tightened.
5. Great care should be taken when viewing directly at the LED driver at high currents and may be hazardous to your eyes.

1. DIRECTION FOR INSTALLATION

IMPORTANT NOTE

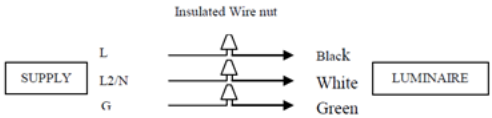
Turn **OFF** electricity to circuit at main fuse or at circuit breaker.

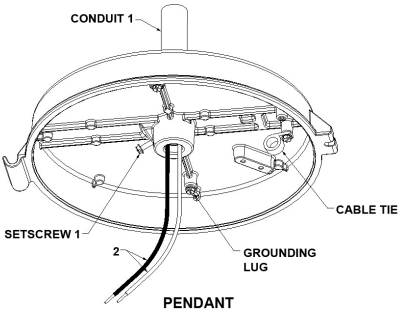
NOTE IMPRORTANTE

Mettre le circuit hors tension grace au fusible principal ou le disjoncteur.

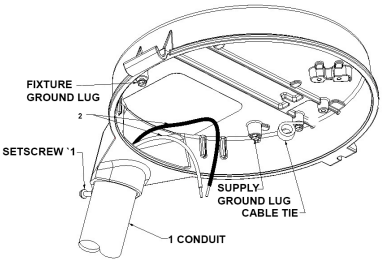
1. Using the installation images on the left as your guide, make sure the splice box is securely installed. Pull the wires through the conduit and secure with cable tie in splice box. (Refer to housing nameplate for supply wire rating.)
2. Hang the housing on the splice box hinge hook.
3. Attach green (ground) lead from housing securely to the splice box using grounding screw.
4. **CAUTION** - Connection as described below requires the use of either insulated wire nuts or, as an alternate, a factory installed terminal block assembly. See below:
   ATTENION - Le raccordement decrit ci-dessous necessite l'untilisation de connecteurs rapides isoles ou, alternativement, un bloc de junction installe en usine. Voir ci-dessous:
5. Close the housing against the splice box latch and secure by tightening screw and cylindrical nut.
   NOTE: Before closing housing against splice box, inspect the housing gasket to be sure it is clean and free of any cuts or abrasions. Make sure no leads are pinched and the gasket is uniformly compressed.
6. Attach external ground if required.

Wire Connection using Wire Nuts
(Only Approved in Class and Division Locations)

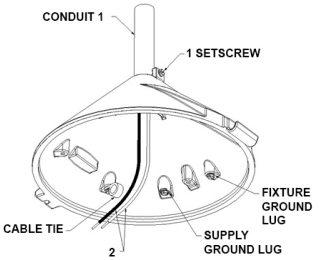




PENDANT



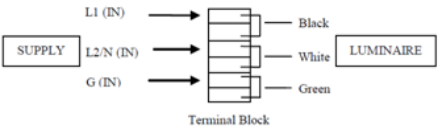
STANCHION



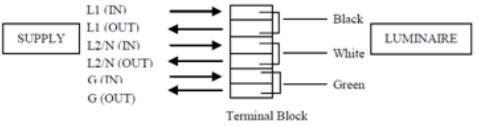
CONE

Figure A

Connection Method
(Insulated Terminal Block Assembly)
Standard Wiring Method



Connection Method
(Insulated Terminal Block Assembly)
Loop in / Loop Out Wiring Method



2. MOUNT (SPLICE BOX) INSTALLATION

Pedant/Flex Pendant/Cone/ Angle Stanchion (25^0)/ Straight Stanchion (90^0)

Figure A

1. Thread the Mount onto existing conduit and secure with the setscrew provided with the Mount.
2. Pull the supply wire, with the proper temperature rating as specified in the ballast housing to be installed, into the mount. VMA2B/VMA3B/VMF2B/VMF3B/VMS4B/ VMS5B/VMD4B/VMD5B/VMC2B/VMC3B.

Ceiling/ Wall Bracket

Figure B

3. Mount Ceiling Splice Box using external mounting lugs on 12 7/8" centers. Use 1/4" or 5/16" diameter bolts. Thread conduit onto hubs to be used and tightened.
4. Mount Wall Bracket Splice Box to the wall using four holes provided with 5" sq. pattern. Use 1/4" diameter bolts.
   CAUTION: All unused hubs must be plugged with close-up plugs provided.
5. Pull the supply wire, with the proper temperature rating as specified in the ballast housing to be installed, into the mount. VMX2B/VMX3B/VMX6B/VMX7B/VMB2B/ VMB3B

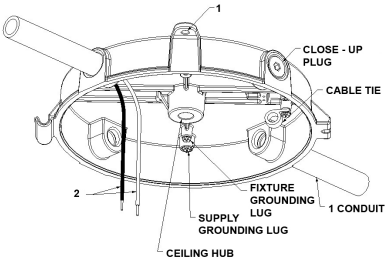
3. MAINTENANCE INSTRUCTIONS

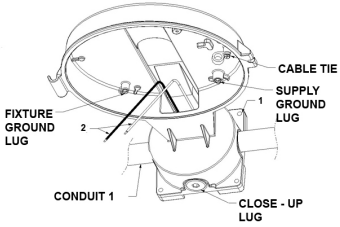
CAUTION

Disconnect the supplying circuit before opening fixture or removing optics. To maintain maximum light output, this fixture should be cleaned periodically. Maintenance procedures sometimes require fixtures to be hosed down for good housekeeping. The supply circuit must be turned **OFF** and the fixture lens must be allowed to cool to the ambient room temperature before cleaning. Only mild, non-abrasive cleaning agents should be used. The force of water applied by a hose must not exceed 65 gallons per minute coming from a 1" diameter hose applied at a distance of 10 feet. These periodic cleaning procedures are important to prevent the accumulation of dust and dirt which will impair the light output of the fixture. The glass lens should be regularly inspected for scratches and chips and, if damaged, must be replaced.

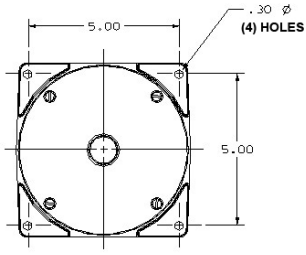
HIGH VIBRATION AREAS

Periodic inspection of lens tightness is required; recommended every six (6) months.





CEILING



WALL BRACKET

Figure B

INSTRUCTIONS DE MAINTENANCE

ATTENTION:

Mettre le circuit hors tension avant d'ouvrir le luminaire ou avant d'enlever les optiques. Afin de maintenir un maximum d'émission lumineuse, ce luminaire doit être nettoyé régulièrement. Les procédures de maintenance exigent parfois le lavage au jet des luminaires. Mettre hors tension et la lentille du luminaire doit pouvoir refroidir jusqu'à la température ambiante avant le nettoyage. N'utiliser que des produits de nettoyage doux et non abrasifs. La force appliquée par le jet d'eau ne doit pas dépasser 65 gallons par minute s'il s'agit d'un tuyau de 1" de diamètre à une distance de 10 pieds. Ces opérations de nettoyage périodiques sont importantes pour éviter l'accumulation de poussières et de salissures qui risquent d'affaiblir l'émission de lumière du luminaire. La lentille de verre doit être inspectée régulièrement pour déceler toute trace de rayure et d'écaille et, si elle est endommagée, elle doit être remplacée.

ZONES A VIBRATIONS ELEVES:

L'inspection périodique de la lentille est obligatoire; recommandée tous les six (6) mois.

NOTE: Join or "lap" marks may form during the pouring of molten glass in the globe manufacturing process. It is not unusual for these marks to become visible. This is a common and normal occurrence for globes and does not affect performance.

REMEMBER TO SAVE ONE OF THESE SHEETS FOR MAINTENANCE PERSONNEL