

# Champ VMV LED luminaires

Cl. I, Div. 2, Groups A, B, C, D  
Cl. I, Zone 2, nA nR  
Cl. II, Groups E, F, G  
Cl. III & Simultaneous  
Presence

UL/cUL Listed  
IECEX/ATEX/CE  
Wet Locations  
Type 4X; IP66

2L

2L

## The Champ VMV LED family:

Champ® VMV LED luminaires are designed to provide full-spectrum, crisp, white light with custom IES Type I, III and V distribution. Nine versions of the VMV LED are available, providing ideal solutions for a wide range of applications.

| Model  | Typical lumens (Type V) <sup>A</sup> | Watts | Lumens per watt | Equivalent HID luminaire | Typical energy savings / lifetime |
|--------|--------------------------------------|-------|-----------------|--------------------------|-----------------------------------|
| VMV3L  | 3,531                                | 29    | 122             | 70W-100W                 | Up to 77%                         |
| VMV5L  | 5,335                                | 43    | 124             | 100W-150W                | Up to 67%                         |
| VMV7L  | 7,195                                | 62    | 116             | 150W-175W                | Up to 67%                         |
| VMV9L  | 9,266                                | 85    | 109             | 250W-320W                | Up to 74%                         |
| VMV11L | 11,440                               | 113   | 101             | 320W-400W                | Up to 74%                         |
| VMV13L | 13,226                               | 130   | 102             | 400W                     | Up to 68%                         |
| VMV17L | 18,793                               | 168   | 112             | 400W-600W                | Up to 72%                         |
| VMV21L | 22,110                               | 196   | 113             | 600W-750W                | Up to 74%                         |
| VMV25L | 26,531                               | 232   | 114             | 750W-1000W               | Up to 77%                         |



## Applications:

- For areas with mounting heights of 8-60 feet
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, indoor/outdoor spotlighting, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Classified and hazardous locations

## Features:

- Instant illumination and restrike
- Cold temperature operation/no warm-up required
- Option for redundancy in drivers with multiple series circuits connected to each driver to avoid complete loss of illumination
- Easy installation – compact modular fixture attaches onto existing Champ mounting module
- Energy-efficient technology – up to 64% energy savings over HID fixtures
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient: -40°C to 65°C (VMV3L-VMV11L models); -40°C to 55°C (VMV13L-VMV25L models)
- 5 year fixture warranty<sup>B</sup>

## Certifications and compliances:

- DesignLights Consortium® Qualified (some models are not DLC qualified)<sup>C</sup>

### NEC/CEC:

- Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, nA nR; Class II, Groups E, F, G; Class III
- Zone 21 tb
- Simultaneous Presence
- Wet locations, Type 4X, IP66

### UL standards:

- UL844; UL1598 – Luminaires; UL1598A – Marine; UL8750; UL50; UL50E

### CSA standard:

- cUL Listed to CSA standard CSA C22.2 No. 137

### IEC: <sup>D</sup>

- IEC 60079-0:2011; IEC 60079-15:2010; IEC 60079-31:2008; IEC 60598-2-1:1979; IEC 60529:2001
- Ex nA nR IIC T\* Gc -40 to +40
- Ex nA nR IIC T\* Gc -40 to +55
- Ex nA nR IIC T\* Gc -40 to +65
- Ex tb IIIC T\*°C Db -40 to +40
- Ex tb IIIC T\*°C Db -40 to +55
- Ex tb IIIC T\*°C Db -40 to +65

### VMV3L-VMV11L only

- IECEx UL 13.0052X

### VMV13L-VMV25L only

- IECEx UL 14.0031X

<sup>A</sup> Tolerance +/- 10%.

<sup>B</sup> Refer to page 2 of the current authorized distributor price book for Eaton's standard Terms and Conditions.

<sup>C</sup> Approved models include: VMV3L/UNV1; VMV5L/UNV1; VMV7L/UNV1; VMV9L/UNV1; VMV11L/UNV1; VMV13L/UNV1; VMV17L/UNV1; VMV21L/UNV1; VMV25L/UNV1; VMV3L/UNV34; VMV5L/UNV34; VMV7L/UNV34; VMV9L/UNV34; VMV11L/UNV34. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

<sup>D</sup> VMV3L-VMV11L/UNV1 rated to +65°C; VMV13L-VMV25L and VMV3L-VMV11L/UNV34 rated to +55°C.

\*See temperature code table on following page.

## Certifications and compliances (continued):

### ATEX/CE: <sup>D</sup>

- EN 60079-0:2012; EN 60079-15:2010; EN 60079-31:2009; EN 60598-2-1:1989; EN 60929:1991 +A1:2001
- <sup>E</sup> II 3 G Ex nA nR IIC T\* Gc -40 to +40
- <sup>E</sup> II 3 G Ex nA nR IIC T\* Gc -40 to +55
- <sup>E</sup> II 3 G Ex nA nR IIC T\* Gc -40 to +65
- <sup>E</sup> II 2 D Ex tb IIIC T\*°C Db IP66 -40 to +40
- <sup>E</sup> II 2 D Ex tb IIIC T\*°C Db IP66 -40 to +55
- <sup>E</sup> II 2 D Ex tb IIIC T\*°C Db IP66 -40 to +65

### VMV3L-VMV11L only

- DEMKO 13 ATEX 1475031X; DEMKO 13 ATEX 1305741X

### VMV13L-VMV25L only

- DEMKO 14 ATEX 1324722X; DEMKO 14 ATEX 2274231X

## Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free epoxy powder coat
- Lens – heat- and impact-resistant glass
- Gaskets – silicone
- External hardware – stainless steel
- Factory sealed, no external seals required

## Photometrics:

- Complete photometrics can be found at [www.crouse-hinds.com/photometrics](http://www.crouse-hinds.com/photometrics)

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Wet Locations  
Type 4X; IP66

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## LED system:

- High intensity discrete power emitters
- Cool white (5000K, 70 CRI) (standard); warm white, (3000K, 80 CRI) (optional)
- Custom Type I, III and V optics available
- Optics clocking in field to align Type I and Type III light patterns to illumination path for VMV13L-VMV25L

## Drivers:

| Option | Voltage                                      |
|--------|--|
| /UNV1  | 120-277 VAC, 50/60 Hz; 108-250 VDC, 50/60 Hz |
| /UNV34 | 347-480 VAC, 50/60 Hz                        |

## Custom optics:

Three optical options to maximize light distribution and intensity:



### TYPE I

Long and rectangular for hallways, walkways, loading docks, catwalks.

Ideal for:

- Mining conveyor belts
- Aisleways and hallways
- Catwalks and walkways
- Ramps and loading docks
- Tunnels with overhead mounts



### TYPE III

Wall mount light distribution, minimizing spillover on the wall.

Ideal for:

- Narrow crosswalks or passages with wall mounted fixtures
- Tunnels with wall mount
- Wall or stanchion mount requiring 180° forward throw beam patterns



### TYPE V

Regular circular distribution pattern for high/low bay indoor and outdoor ceiling or pendant mount lighting.

Ideal for:

- Pendant, ceiling or stanchion mount overhead building mounts
- Processing mills, industrial plants, large buildings, warehouses, etc.



## Colored LED options:

- Available in green and amber<sup>Ⓔ</sup>
- Reduction in light pollution for night space observation and sky glow due to isolating blue wavelength in red and amber colors
- Wildlife-friendly
- Improves visibility for telescopes in observatories during night sky space exploration

## Electrical ratings:

|                                      | VMV3L       | VMV5L       | VMV7L       | VMV9L       | VMV11L      | VMV13L      | VMV17L      | VMV21L      | VMV25L      |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Voltage range, VAC                   | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     |
| Frequency                            | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    |
| Input power (watts)                  | 29          | 43          | 62          | 85          | 113         | 131         | 168         | 196         | 232         |
| Input amps at 120-277 VAC            | 0.24 - 0.11 | 0.35 - 0.16 | 0.52 - 0.23 | 0.71 - 0.31 | 0.95 - 0.41 | 1.08 - 0.48 | 1.40 - 0.62 | 1.64 - 0.73 | 1.94 - 0.87 |
| Voltage range, VDC                   | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     |
| Power factor                         | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       |
| Total harmonic distortion (THD)      | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        |
| Nominal lumens (Type V) <sup>Ⓔ</sup> | 3,531       | 5,335       | 7,195       | 9,266       | 11,440      | 13,226      | 18,793      | 22,110      | 26,531      |

## Temperature performance data:

| Lamp / lumen output | Driver type  | Ambient temp. °C | Class I, Div. 2 | Class II, Div. 1 | Class III, Div. 1       |  |       |
|---------------------|--------------|------------------|-----------------|------------------|-------------------------|--|-------|
|                     |              |                  |                 |                  | Simultaneous rating     | Class II, Div. 1, Groups E, F, G       |       |
|                     |              |                  |                 |                  | Class I, Zone 2         | Class II, Div. 1, Zone 21, AEx tb IIIC |       |
|                     |              |                  |                 |                  | Class I, Div. 2; Div. 1 | AEx nA nR; Ex nA nR                    |       |
| 3L, 5L, 7L, 9L, 11L | /UNV1        | 40               | T5              | T5               | T3C                     | T6                                     | T66°C |
| 3L, 5L, 7L, 9L, 11L | /UNV1        | 55               | T5              | T4A              | T3A                     | T5                                     | T83°C |
| 3L, 5L, 7L, 9L, 11L | /UNV1        | 65               | T4A             | T4A              | T3A                     | T4                                     | T92°C |
| 3L, 5L, 7L, 9L, 11L | /UNV34       | 40               | T3C             | T5               | T3C                     | T4                                     | T70°C |
| 3L, 5L, 7L, 9L, 11L | /UNV34       | 55               | T3A             | T4A              | T3A                     | T4                                     | T85°C |
| 3L, 5L, 7L, 9L, 11L | /UNV34       | 65               | T3A             | T4A              | T3A                     | T4                                     | T92°C |
| 13L, 17L            | /UNV1; UNV34 | 40               | T4A             | T5               | T4A                     | T6                                     | T66°C |
| 13L, 17L            | /UNV1; UNV34 | 55               | T4              | T4A              | T4                      | T5                                     | T81°C |
| 21L, 25L            | /UNV1; UNV34 | 40               | T4A             | T5               | T4A                     | T6                                     | T71°C |
| 21L, 25L            | /UNV1; UNV34 | 55               | T4              | T4A              | T4                      | T5                                     | T86°C |

<sup>Ⓔ</sup> Custom optics not available with colored LEDs. One model per color; see catalog numbering system on following page.

<sup>Ⓕ</sup> Tolerance +/- 10%.

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2L

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## Ordering information:

Part number example

VMV17LW2AR1G/UNV1 S890

**VMV 17L W 2A R1 G /UNV1 S890**

### Lamp / function

|     |                         |
|-----|-------------------------|
| 3L  | 3,531 lumen LED         |
| 5L  | 5,335 lumen LED         |
| 7L  | 7,195 lumen LED         |
| 9L  | 9,226 lumen LED         |
| 11L | 11,440 lumen LED        |
| 13L | 13,226 lumen LED        |
| 17L | 18,793 lumen LED        |
| 21L | 22,110 lumen LED        |
| 25L | 26,531 lumen LED        |
| GL  | Green (4,300 lumen LED) |
| AL  | Amber (5,000 lumen LED) |

### Color temperature

|       |                       |
|-------|-----------------------|
| BLANK | Cool (5000K), colored |
| W     | Warm (3000K)          |

### Mounting style

|       |                            |      |                     |
|-------|----------------------------|------|---------------------|
| BLANK | No cover                   | 2C   | ¾" ceiling          |
| J     | 1-½" stanchion, 25° angled | 3C   | 1" ceiling          |
| P     | 1-½" stanchion, straight   | 20C  | 20mm ceiling        |
| 2A    | ¾" pendant                 | 25C  | 25mm ceiling        |
| 3A    | 1" pendant                 | 2HA  | ¾" flexible pendant |
| 20A   | 20mm pendant               | 2TW  | ¾" wall             |
| 25A   | 25mm pendant               | 3TW  | 1" wall             |
| 2B    | ¾" cone pendant            | 20TW | 20mm wall           |
| 3B    | 1" cone pendant            | 25TW | 25mm wall           |

### Options

|      |                             |
|------|-----------------------------|
| S812 | Trunnion mount kit with pin |
| S831 | Safety cable                |
| S890 | Quick clip                  |
| S891 | Diffused lens               |
| S892 | Redundant driver            |
| S896 | Teflon coated lens          |
| S903 | Polycarbonate lens          |
| TB6  | Six-pole terminal block     |

### Voltage

|        |   |
|--------|---|
| /UNV1  | 120-277 VAC, 50/60 Hz;<br>108-250 VDC, 50/60 Hz |
| /UNV34 | 347-480 VAC, 50/60 Hz                           |

### Guard

|       |                  |
|-------|------------------|
| BLANK | No guard         |
| G     | P3001 wire guard |

### Optics

|       |  |
|-------|--|
| BLANK | Type V optic standard (all mounts)   |
| R1    | Type I optic (all mounts minus ceiling for 3L-11L, available with mounts for 13L-25L models) |
| R1A   | Type I optic (ceiling with conduit 45° counterclockwise or 135° clockwise from hinge)        |
| R1B   | Type I optic (ceiling with conduit 45° clockwise or 135° counterclockwise from hinge)        |
| R3    | Type III optic (all mounts minus ceiling)  |
| R3AP  | Type III optic (select when using Appleton® top hat adapter with Champ fixture)              |
| R3A1  | Type III optic (ceiling with conduit 45° counterclockwise from top hat hinge)                |
| R3A2  | Type III optic (ceiling with conduit 135° clockwise from top hat hinge)                      |
| R3B1  | Type III optic (ceiling with conduit 45° clockwise from top hat hinge)                       |
| R3B2  | Type III optic (ceiling with conduit 135° counterclockwise from top hat hinge)               |

## Accessories (ordered separately):

### Description

- Photocell, 120V, 50/60 Hz ..... **D2S20**
- Photocell, 208-277V ..... **D2S208 277**
- Trunnion mount kit with pin ..... **VMVL S812 K1**
- Wire guard with captive mounting hardware ..... **P3001**
- Top hat adapter ..... **CHMM1**

For retrofitting Appleton MercMaster III top hats to Champ VMV luminaires

Ⓞ Custom optics not available with colored LEDs.

Ⓜ For VMV3L-VMV11L only.

Ⓛ Order with ceiling mount only.

Ⓡ Not available for IEC.

Ⓚ Available for VMV5L and VMV7L only. Redundant driver standard on VMV9L-VMV25L models. 7L = 6,616 lumens with S892 suffix.



CHMM1

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Presence

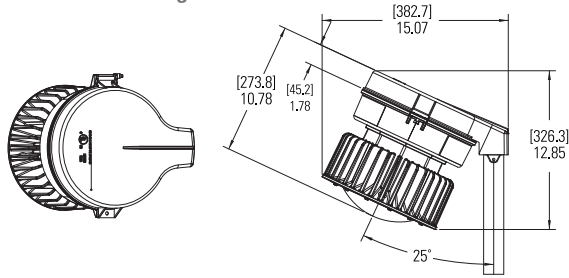
UL/cUL Listed  
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Wet Locations  
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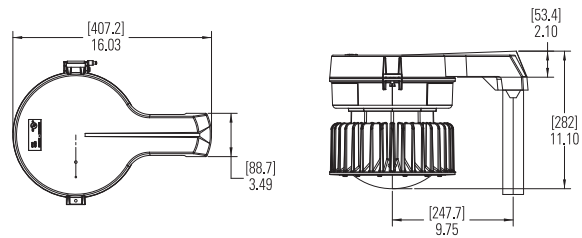
2L

## Dimensions:

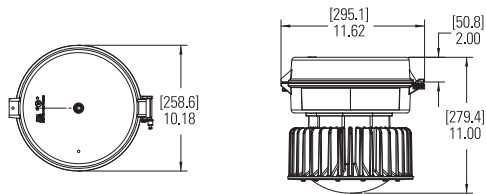
Stanchion - 25° angled



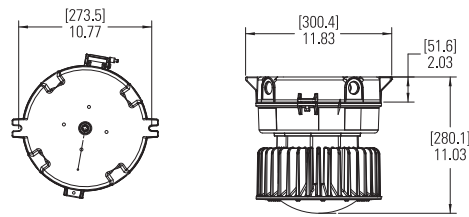
Stanchion - straight



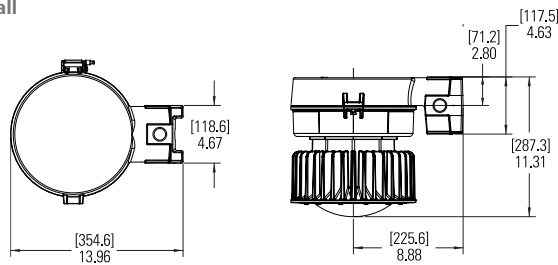
Pendant



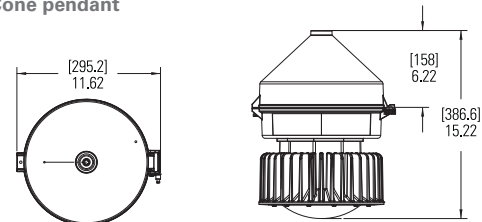
Ceiling



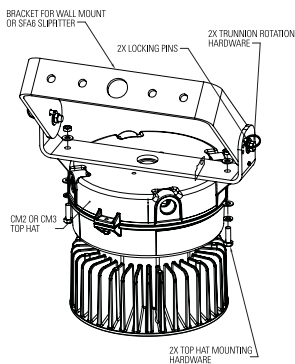
Wall



Cone pendant



Trunnion



## Net luminaire weights:

| Model                         | Lbs.  | Kg.   |
|-------------------------------|-------|-------|
| VMV3L-VMV11L                  | 21.80 | 8.07  |
| VMV13L & VMV17L               | 36.00 | 16.32 |
| VMV21L & VMV25L               | 44.00 | 19.95 |
| <b>Add mounting modules:</b>  |       |       |
| Pendant                       | 1.25  | 0.57  |
| Cone pendant                  | 4.00  | 1.81  |
| Flexible pendant              | 1.50  | 0.68  |
| Ceiling                       | 2.75  | 1.25  |
| Wall                          | 4.50  | 2.04  |
| Angled stanchion <sup>L</sup> | 3.50  | 1.59  |
| Straight stanchion            | 4.50  | 2.04  |

<sup>L</sup> Angled stanchion for VMV3L-VMV11L models only.

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## Applications:

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- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels, indoor/outdoor spotlighting, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Classified and hazardous locations

## Features:

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- Cold temperature operation/no warm-up required
- Option for redundancy in drivers with multiple series circuits connected to each driver to avoid complete loss of illumination
- Easy installation – compact modular fixture attaches onto existing Champ mounting module
- Energy-efficient technology – up to 64% energy savings over HID fixtures
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient: -40°C to 65°C (VMV3L-VMV11L models); -40°C to 55°C (VMV13L-VMV25L models)
- 5 year fixture warranty<sup>B</sup>

## Certifications and compliances:

- DesignLights Consortium® Qualified (some models are not DLC qualified)<sup>C</sup>

### NEC/CEC:

- Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, nA nR; Class II, Groups E, F, G; Class III
- Zone 21 tb
- Simultaneous Presence
- Wet locations, Type 4X, IP66

### UL standards:

- UL844; UL1598 – Luminaires; UL1598A – Marine; UL8750; UL50; UL50E

### CSA standard:

- cUL Listed to CSA standard CSA C22.2 No. 137

### IEC: <sup>D</sup>

- IEC 60079-0:2011; IEC 60079-15:2010; IEC 60079-31:2008; IEC 60598-2-1:1979; IEC 60529:2001
- Ex nA nR IIC T\* Gc -40 to +40
- Ex nA nR IIC T\* Gc -40 to +55
- Ex nA nR IIC T\* Gc -40 to +65
- Ex tb IIIC T\*°C Db -40 to +40
- Ex tb IIIC T\*°C Db -40 to +55
- Ex tb IIIC T\*°C Db -40 to +65

### VMV3L-VMV11L only

- IECEx UL 13.0052X

### VMV13L-VMV25L only

- IECEx UL 14.0031X

<sup>A</sup> Tolerance +/- 10%.

<sup>B</sup> Refer to page 2 of the current authorized distributor price book for Eaton's standard Terms and Conditions.

<sup>C</sup> Approved models include: VMV3L/UNV1; VMV5L/UNV1; VMV7L/UNV1; VMV9L/UNV1; VMV11L/UNV1; VMV13L/UNV1; VMV17L/UNV1; VMV21L/UNV1; VMV25L/UNV1; VMV3L/UNV34; VMV5L/UNV34; VMV7L/UNV34; VMV9L/UNV34; VMV11L/UNV34. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

<sup>D</sup> VMV3L-VMV11L/UNV1 rated to +65°C; VMV13L-VMV25L and VMV3L-VMV11L/UNV34 rated to +55°C.

\*See temperature code table on following page.

## Certifications and compliances (continued):

### ATEX/CE: <sup>D</sup>

- EN 60079-0:2012; EN 60079-15:2010; EN 60079-31:2009; EN 60598-2-1:1989; EN 60929:1991 +A1:2001
- <sup>E</sup> II 3 G Ex nA nR IIC T\* Gc -40 to +40
- <sup>E</sup> II 3 G Ex nA nR IIC T\* Gc -40 to +55
- <sup>E</sup> II 3 G Ex nA nR IIC T\* Gc -40 to +65
- <sup>E</sup> II 2 D Ex tb IIIC T\*°C Db IP66 -40 to +40
- <sup>E</sup> II 2 D Ex tb IIIC T\*°C Db IP66 -40 to +55
- <sup>E</sup> II 2 D Ex tb IIIC T\*°C Db IP66 -40 to +65

### VMV3L-VMV11L only

- DEMKO 13 ATEX 1475031X; DEMKO 13 ATEX 1305741X

### VMV13L-VMV25L only

- DEMKO 14 ATEX 1324722X; DEMKO 14 ATEX 2274231X

## Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free epoxy powder coat
- Lens – heat- and impact-resistant glass
- Gaskets – silicone
- External hardware – stainless steel
- Factory sealed, no external seals required

## Photometrics:

- Complete photometrics can be found at [www.crouse-hinds.com/photometrics](http://www.crouse-hinds.com/photometrics)

# Champ VMV LED luminaires

Cl. I, Div. 2, Groups A, B, C, D  
Cl. I, Zone 2, nA nR  
Cl. II, Groups E, F, G  
Cl. III & Simultaneous  
Presence

UL/cUL Listed  
IECEX/ATEX/CE  
Wet Locations  
Type 4X; IP66

2L

2L

## LED system:

- High intensity discrete power emitters
- Cool white (5000K, 70 CRI) (standard); warm white, (3000K, 80 CRI) (optional)
- Custom Type I, III and V optics available
- Optics clocking in field to align Type I and Type III light patterns to illumination path for VMV13L-VMV25L

## Drivers:

| Option | Voltage                                      |
|--------|--|
| /UNV1  | 120-277 VAC, 50/60 Hz; 108-250 VDC, 50/60 Hz |
| /UNV34 | 347-480 VAC, 50/60 Hz                        |

## Custom optics:

Three optical options to maximize light distribution and intensity:



### TYPE I

Long and rectangular for hallways, walkways, loading docks, catwalks.

Ideal for:

- Mining conveyor belts
- Aisleways and hallways
- Catwalks and walkways
- Ramps and loading docks
- Tunnels with overhead mounts



### TYPE III

Wall mount light distribution, minimizing spillover on the wall.

Ideal for:

- Narrow crosswalks or passages with wall mounted fixtures
- Tunnels with wall mount
- Wall or stanchion mount requiring 180° forward throw beam patterns



### TYPE V

Regular circular distribution pattern for high/low bay indoor and outdoor ceiling or pendant mount lighting.

Ideal for:

- Pendant, ceiling or stanchion mount overhead building mounts
- Processing mills, industrial plants, large buildings, warehouses, etc.



## Colored LED options:

- Available in green and amber<sup>Ⓔ</sup>
- Reduction in light pollution for night space observation and sky glow due to isolating blue wavelength in red and amber colors
- Wildlife-friendly
- Improves visibility for telescopes in observatories during night sky space exploration

## Electrical ratings:

|                                      | VMV3L       | VMV5L       | VMV7L       | VMV9L       | VMV11L      | VMV13L      | VMV17L      | VMV21L      | VMV25L      |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Voltage range, VAC                   | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     | 120-277     |
| Frequency                            | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    | 50/60 Hz    |
| Input power (watts)                  | 29          | 43          | 62          | 85          | 113         | 131         | 168         | 196         | 232         |
| Input amps at 120-277 VAC            | 0.24 - 0.11 | 0.35 - 0.16 | 0.52 - 0.23 | 0.71 - 0.31 | 0.95 - 0.41 | 1.08 - 0.48 | 1.40 - 0.62 | 1.64 - 0.73 | 1.94 - 0.87 |
| Voltage range, VDC                   | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     | 108-250     |
| Power factor                         | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       | >0.90       |
| Total harmonic distortion (THD)      | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        | <20%        |
| Nominal lumens (Type V) <sup>Ⓕ</sup> | 3,531       | 5,335       | 7,195       | 9,266       | 11,440      | 13,226      | 18,793      | 22,110      | 26,531      |

## Temperature performance data:

| Lamp / lumen output | Driver type  | Ambient temp. °C | Class I, Div. 2 | Class II, Div. 1 | Class III, Div. 1   |  |       |
|---------------------|--------------|------------------|-----------------|------------------|---------------------|--|-------|
|                     |              |                  |                 |                  | Simultaneous rating | Class II, Div. 1, Groups E, F, G       |       |
|                     |              |                  |                 |                  | Class I, Zone 2     | Class II, Div. 1, Zone 21, AEx tb IIIC |       |
|                     |              |                  |                 |                  | AEx nA nR; Ex nA nR |  |       |
| 3L, 5L, 7L, 9L, 11L | /UNV1        | 40               | T5              | T5               | T3C                 | T6                                     | T66°C |
| 3L, 5L, 7L, 9L, 11L | /UNV1        | 55               | T5              | T4A              | T3A                 | T5                                     | T83°C |
| 3L, 5L, 7L, 9L, 11L | /UNV1        | 65               | T4A             | T4A              | T3A                 | T4                                     | T92°C |
| 3L, 5L, 7L, 9L, 11L | /UNV34       | 40               | T3C             | T5               | T3C                 | T4                                     | T70°C |
| 3L, 5L, 7L, 9L, 11L | /UNV34       | 55               | T3A             | T4A              | T3A                 | T4                                     | T85°C |
| 3L, 5L, 7L, 9L, 11L | /UNV34       | 65               | T3A             | T4A              | T3A                 | T4                                     | T92°C |
| 13L, 17L            | /UNV1; UNV34 | 40               | T4A             | T5               | T4A                 | T6                                     | T66°C |
| 13L, 17L            | /UNV1; UNV34 | 55               | T4              | T4A              | T4                  | T5                                     | T81°C |
| 21L, 25L            | /UNV1; UNV34 | 40               | T4A             | T5               | T4A                 | T6                                     | T71°C |
| 21L, 25L            | /UNV1; UNV34 | 55               | T4              | T4A              | T4                  | T5                                     | T86°C |

<sup>Ⓔ</sup> Custom optics not available with colored LEDs. One model per color; see catalog numbering system on following page.

<sup>Ⓕ</sup> Tolerance +/- 10%.

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UL/cUL Listed  
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Wet Locations  
Type 4X; IP66

2L

2L

## Ordering information:

Part number example

VMV17LW2AR1G/UNV1 S890

**VMV 17L W 2A R1 G /UNV1 S890**

### Lamp / function

|                 |                         |
|-----------------|-------------------------|
| 3L              | 3,531 lumen LED         |
| 5L              | 5,335 lumen LED         |
| 7L              | 7,195 lumen LED         |
| 9L              | 9,226 lumen LED         |
| 11L             | 11,440 lumen LED        |
| 13L             | 13,226 lumen LED        |
| 17L             | 18,793 lumen LED        |
| 21L             | 22,110 lumen LED        |
| 25L             | 26,531 lumen LED        |
| GL <sup>Ⓞ</sup> | Green (4,300 lumen LED) |
| AL <sup>Ⓞ</sup> | Amber (5,000 lumen LED) |

### Color temperature

|       |                       |
|-------|-----------------------|
| BLANK | Cool (5000K), colored |
| W     | Warm (3000K)          |

### Mounting style

|                |                            |      |                     |
|----------------|----------------------------|------|---------------------|
| BLANK          | No cover                   | 2C   | ¾" ceiling          |
| J <sup>Ⓢ</sup> | 1-½" stanchion, 25° angled | 3C   | 1" ceiling          |
| P              | 1-½" stanchion, straight   | 20C  | 20mm ceiling        |
| 2A             | ¾" pendant                 | 25C  | 25mm ceiling        |
| 3A             | 1" pendant                 | 2HA  | ¾" flexible pendant |
| 20A            | 20mm pendant               | 2TW  | ¾" wall             |
| 25A            | 25mm pendant               | 3TW  | 1" wall             |
| 2B             | ¾" cone pendant            | 20TW | 20mm wall           |
| 3B             | 1" cone pendant            | 25TW | 25mm wall           |

### Options

|                   |                             |
|-------------------|-----------------------------|
| S812 <sup>Ⓢ</sup> | Trunnion mount kit with pin |
| S831 <sup>Ⓢ</sup> | Safety cable                |
| S890              | Quick clip                  |
| S891 <sup>Ⓢ</sup> | Diffused lens               |
| S892 <sup>Ⓢ</sup> | Redundant driver            |
| S896 <sup>Ⓢ</sup> | Teflon coated lens          |
| S903              | Polycarbonate lens          |
| TB6               | Six-pole terminal block     |

### Voltage

|        |   |
|--------|---|
| /UNV1  | 120-277 VAC, 50/60 Hz;<br>108-250 VDC, 50/60 Hz |
| /UNV34 | 347-480 VAC, 50/60 Hz                           |

### Guard

|       |                  |
|-------|------------------|
| BLANK | No guard         |
| G     | P3001 wire guard |

### Optics

|                   |  |
|-------------------|--|
| BLANK             | Type V optic standard (all mounts)   |
| R1                | Type I optic (all mounts minus ceiling for 3L-11L, available with mounts for 13L-25L models) |
| R1A <sup>Ⓢ</sup>  | Type I optic (ceiling with conduit 45° counterclockwise or 135° clockwise from hinge)        |
| R1B <sup>Ⓢ</sup>  | Type I optic (ceiling with conduit 45° clockwise or 135° counterclockwise from hinge)        |
| R3                | Type III optic (all mounts minus ceiling)  |
| R3AP <sup>Ⓢ</sup> | Type III optic (select when using Appleton® top hat adapter with Champ fixture)              |
| R3A1 <sup>Ⓢ</sup> | Type III optic (ceiling with conduit 45° counterclockwise from top hat hinge)                |
| R3A2 <sup>Ⓢ</sup> | Type III optic (ceiling with conduit 135° clockwise from top hat hinge)                      |
| R3B1 <sup>Ⓢ</sup> | Type III optic (ceiling with conduit 45° clockwise from top hat hinge)                       |
| R3B2 <sup>Ⓢ</sup> | Type III optic (ceiling with conduit 135° counterclockwise from top hat hinge)               |

## Accessories (ordered separately):

### Description

- Photocell, 120V, 50/60 Hz ..... **D2S20**
- Photocell, 208-277V ..... **D2S208 277**
- Trunnion mount kit with pin ..... **VMVL S812 K1<sup>Ⓢ</sup>**
- Wire guard with captive mounting hardware ..... **P3001**
- Top hat adapter ..... **CHMM1**

For retrofitting Appleton MercMaster III top hats to Champ VMV luminaires

<sup>Ⓞ</sup> Custom optics not available with colored LEDs.

<sup>Ⓢ</sup> For VMV3L-VMV11L only.

<sup>Ⓢ</sup> Order with ceiling mount only.

<sup>Ⓢ</sup> Not available for IEC.

<sup>Ⓢ</sup> Available for VMV5L and VMV7L only. Redundant driver standard on VMV9L-VMV25L models. 7L = 6,616 lumens with S892 suffix.



CHMM1

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Cl. III & Simultaneous  
Presence

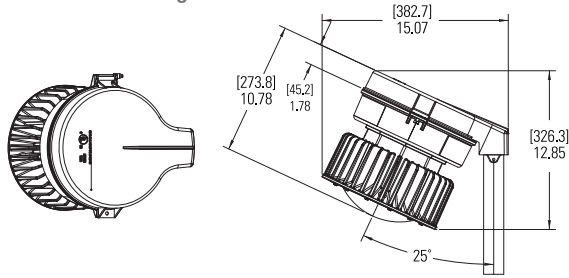
UL/cUL Listed  
IECEX/ATEX/CE  
Wet Locations  
Type 4X; IP66

2L

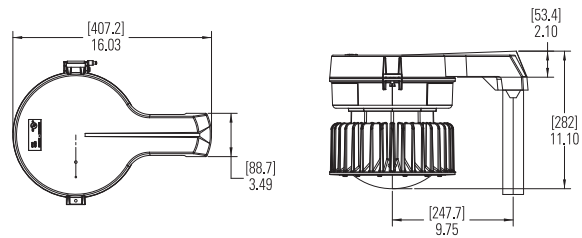
2L

## Dimensions:

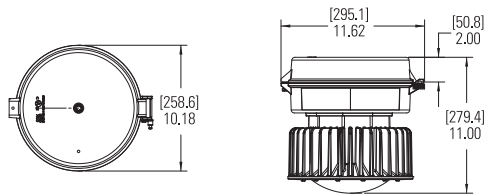
Stanchion - 25° angled



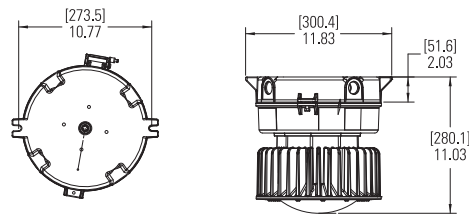
Stanchion - straight



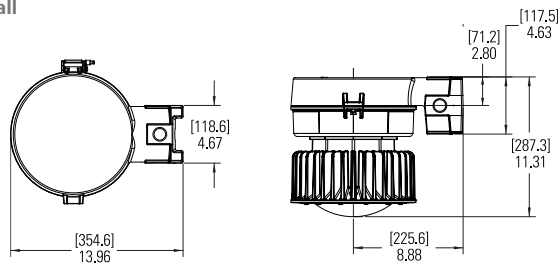
Pendant



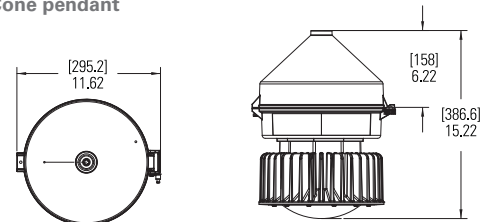
Ceiling



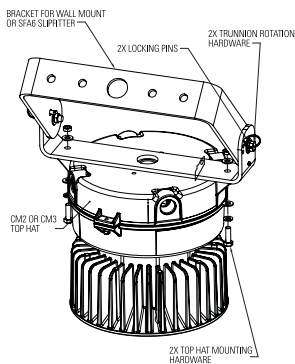
Wall



Cone pendant



Trunnion



## Net luminaire weights:

| Model                         | Lbs.  | Kg.   |
|-------------------------------|-------|-------|
| VMV3L-VMV11L                  | 21.80 | 8.07  |
| VMV13L & VMV17L               | 36.00 | 16.32 |
| VMV21L & VMV25L               | 44.00 | 19.95 |
| <b>Add mounting modules:</b>  |       |       |
| Pendant                       | 1.25  | 0.57  |
| Cone pendant                  | 4.00  | 1.81  |
| Flexible pendant              | 1.50  | 0.68  |
| Ceiling                       | 2.75  | 1.25  |
| Wall                          | 4.50  | 2.04  |
| Angled stanchion <sup>L</sup> | 3.50  | 1.59  |
| Straight stanchion            | 4.50  | 2.04  |

<sup>L</sup> Angled stanchion for VMV3L-VMV11L models only.