

LED lighting for hazardous rated areas

CROUSE-HINDS
SERIES

Champ FMVA

LED FLOODLIGHTING for hazardous areas



Safe. Reliable. Efficient.
9,000 to 15,000 lumens

EATON

Powering Business Worldwide

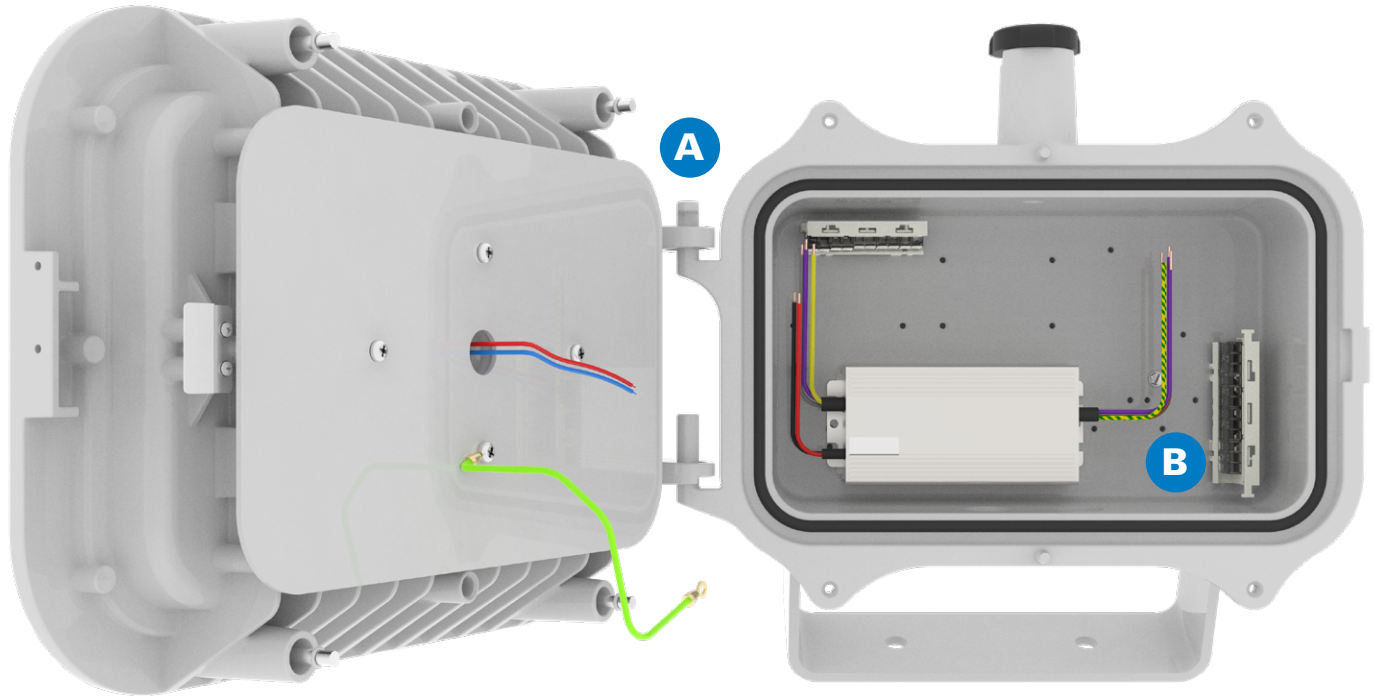


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Design features

Our Champ LED floodlight is a field-proven design that helps ensure safety, reliability and performance in harsh and hazardous rated areas. Champ products are engineered to deliver more operational value and better total cost of ownership.

INSTALLATION EASE

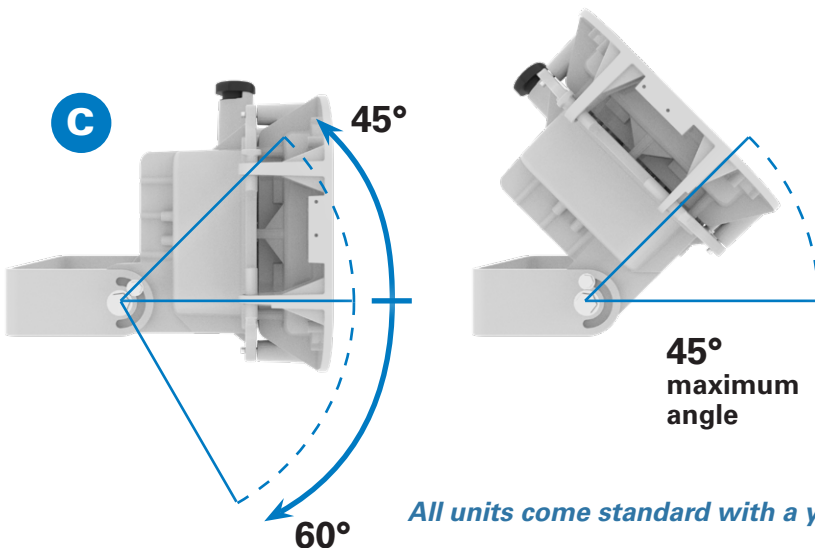
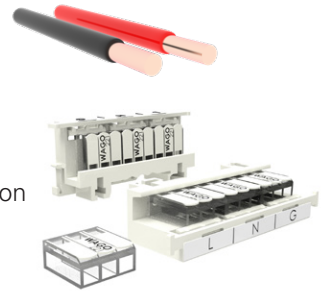


A Light weight & easy access

- Driver and LED engine are field replaceable for extended life even beyond the warranty
- Removable cover for LED engine and hinged driver compartment enables faster installation, access to wiring and field maintenance
- 22% weight reduction from previous generation Champ floodlight models

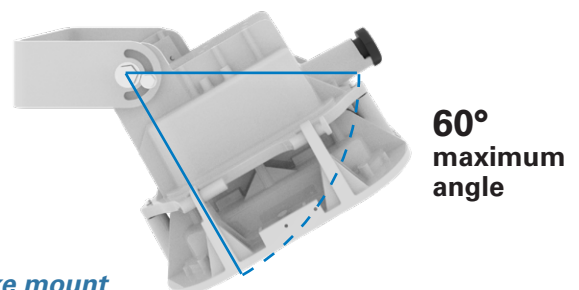
B Now supports up to 10 AWG wire for easier, less costly retrofits!

- Customers with 10 AWG wire already running through their facility from older, higher power HID fixtures can reuse the same wiring
- Plug and play wiring helps speed installation



C Versatile mounting options

- Yoke mount and accessories help ensure the fixtures are installed in the correct location to properly light your facility

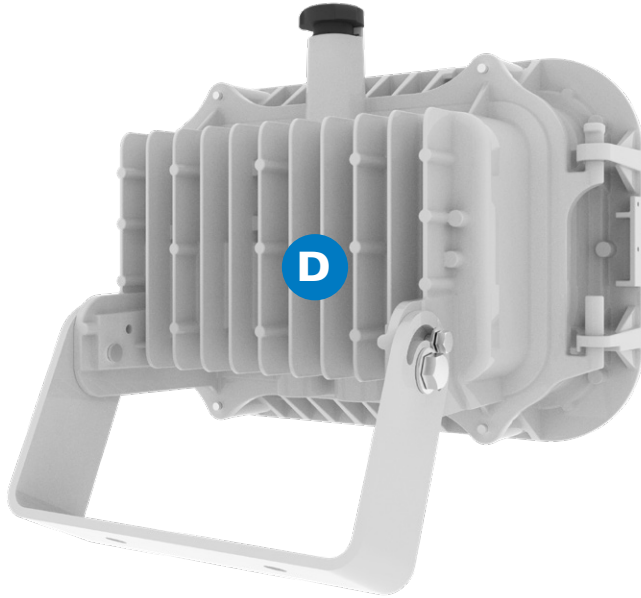


All units come standard with a yoke mount

RELIABLE PERFORMANCE

D Thermal management

- Heat fins help ensure proper air flow and facilitate dust-shedding for effective heat dissipation and thermal management of LED engine and driver



E Performance in extreme environments

- Operating ambient -40°C to 65°C
- Type 4X, IP67
- 6kV surge protection
- Corrosion resistant aluminum housing with Corro-free™ epoxy powder coating
- Vibration tested in accordance with Section 33 of UL844
- Impact tested in accordance with IEC/EN/UL/CSA 60079-0 Section 26.4.2



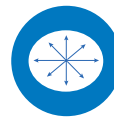
OPTIMIZED LIGHT & QUALITY

F Custom optics & colors

- Directs light where you need it, helping eliminate gaps and dark spots.
- Can potentially reduce the number of light fixtures required in your application
- 2200K–DEEP WARM, 3000K–WARM, 4000K–NEUTRAL and 5000K–COOL color options available



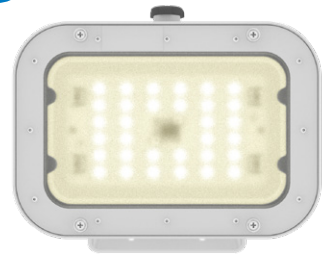
NEMA 4x4
Narrow uniform
pattern for use at
larger distances



NEMA 7X6
Wide flood
distribution provides
a large and uniform
light pattern



5000K – COOL
Crisp, bright white
with a blue hue



3000K – WARM
Soft, warm white
with a yellow hue

G Multiple lens & epoxy powder coat options

- Clear glass lens (standard)
- Diffused glass and clear polycarbonate lenses optional
- Corro-free epoxy powder coat available in gray



Specifications

Applications:

- For general area illumination of locations with mounting heights from 15 to 30 feet
- Locations requiring continuous and consistent light levels where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP67, Type 4X, marine, wet locations and hose-down environments
- Oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, platforms, loading docks, tunnels



NEC and CEC:

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, IIC
- Class II, Division 2 Groups F and G
- Class II, Zone 22
- Marine and wet locations, Type 4X, IP66/67
- Class I, Zone 2, AEx ec IIC T4 Gc, Class I Zone 2, Ex ec IIC T4 Gc XTamb -40 - +40°C*, +55°C*, +65°C*
- Class II Zone 21, AEx tb IIIC T85°C Db; Class II Zone 21, Ex tb IIIC T85°C Db XTamb -40°C - +40°C*, +55°C*, +65°C*

IECEX & ATEX*:

- IECEX UL24.0069X
- UL 24 ATEX 3277X
- UL 24 ATEX 3278X
- II 3 G Ex ec IIC T4 Gc Tamb -40° - +40°C , +55°C, +65°C
- Ex ec IIC T4 Gc Tamb -40°C - +40°C , +55°C, +65°C
- II 2 D Ex tb IIIC T85°C Db Tamb -40°C - +40°C , +55°C, +65°C
- Ex tb IIIC T85°C Db Tamb -40°C - +40°C , +55°C, +65°C
-  (Marking - Refer IF1883)
- IP66/67

UL standards:

- UL 844 Hazardous (Classified), UL1598 Luminaires, UL1598A Marine, UL8750

IEC standards*:

- IEC 60079-0, Edition 7.0 (2017-12)
- IEC 60079-7, Edition 5.1 (2017-08),
- IEC 60079-31, Edition 2.0 (2013-11)
- EN IEC 60079-0:2018
- EN IEC 60079-7:2015/A1:2018
- EN 60079-31:2014
- UL 60079-0, 7th edition
- UL 60079-7 , 5th edition
- UL 60079-31, 2nd edition,
- CSA C22.2 No. 60079-0:19, 4th edition
- CSA C22.2 No. 60079-7:16, 2nd edition,
- CSA C22.2 No. 60079-31:15 2nd edition
- IEC 60598-1:2008/EN60598-1:2008
- IEC 60598-2:2008/EN60598-2:2008

CSA standards:

- CSA C22.2 NO. 137-M1981 – The Standard for Electric Luminaires for Use in Hazardous Locations
- CSA C22.2 NO. 250.0 – The Standard for Luminaires

FCC:

-  CAN ICES-005 (A) / NMB-005 (A)

* Not applicable for UNV3 models.

Electrical ratings:

Model	Weight lbs. (kg.)	Nominal lumens	Efficacy† lm/W	Wattage	Voltage	Amps	Power Factor	THD	Surge protection
FMVA-9-UNV1	24.92 (11.30)	9,261	162	58.12	100-277 VAC, 50/60 Hz	0.59 - 0.22	0.90	≤ 20%	6kV
FMVA-11-UNV1	24.92 (11.30)	11,602	158	77.35	100-277 VAC, 50/60 Hz	0.79 - 0.28	0.90	≤ 20%	6kV
FMVA-13-UNV1	24.92 (11.30)	13,581	154	89.60	100-277 VAC, 50/60 Hz	0.91 - 0.32	0.90	≤ 20%	6kV
FMVA-15-UNV1	24.92 (11.30)	15,845	154	106.78	100-277 VAC, 50/60 Hz	1.07 - 0.38	0.90	≤ 20%	6kV
FMVA-9-UNV3	24.95 (11.32)	9,261	162	58.34	347-480 VAC, 50/60 Hz	0.17 - 0.12	0.90	≤ 20%	6kV
FMVA-11-UNV3	24.95 (11.32)	11,602	158	75.01	347-480 VAC, 50/60 Hz	0.22 - 0.16	0.90	≤ 20%	6kV
FMVA-13-UNV3	24.95 (11.32)	13,581	154	90.38	347-480 VAC, 50/60 Hz	0.26 - 0.19	0.90	≤ 20%	6kV
FMVA-15-UNV3	24.95 (11.32)	15,845	154	105.38	347-480 VAC, 50/60 Hz	0.30 - 0.22	0.90	≤ 20%	6kV

†Consult IES files for exact performance data.

LED system:

- High intensity discrete power emitters
 - Standard: cool white (5000K, 70 CRI);
 - Available options: deep warm (2200K, 70 CRI), warm white (3000K, 80 CRI) or neutral white (4000K, 80 CRI)
 - Dimmable driver, 0-10v
 - NEMA 7x6 or 4x4 optical patterns available
 - Rated life of 60,000 hours continuous operation at 55°C operating ambient temperature
 - 5 year fixture warranty*
- *Refer to [terms & conditions](#) on Eaton.com for Crouse-Hinds series solutions.

Standard materials:

- Lamp housing - die cast aluminum with Corro-free™ epoxy powder coat
- Lens - heat and impact-resistant glass or polycarbonate
- Gaskets - silicone
- External hardware - 316 stainless steel
- Factory-sealed, no external seals required

Ordering information

Champ FMVA LED, 9,000 lumens, 3000K warm white, yoke mount, diffused glass lens, 100-277 VAC driver, gray epoxy powder coat paint

Part number example: **FMVA-9-W-76-M20-DG-UNV1-M2**

FMVA - 9 - W - 76 - M20 - DG - UNV1 - - M2

Light source/intensity

9	9,261 nominal lumens
11	11,602 nominal lumens
13	13,581 nominal lumens
15	15,845 nominal lumens

Color temperature

BLANK	5000K, 70 CRI (<i>cool white</i>)
N*	4000K, 80 CRI (<i>neutral white</i>)
W	3000K, 80 CRI (<i>warm white</i>)
22*	2200K, 70 CRI (<i>deep warm</i>)

*Consult customer service for lead time.

Beam pattern

76	NEMA 7x6
44*	NEMA 4x4

*Consult customer service for lead time.

Entries

BLANK	3/4" NPT
M20	20mm
M25	25mm

Voltage

UNV1	100-277 VAC, 50/60 Hz
UNV3	347-480 VAC, 50/60 Hz

Epoxy powder coat

BLANK	Gray
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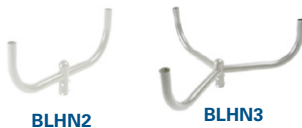
Lens material

BLANK	Clear glass
DG	Diffused glass
PC*	Clear polycarbonate

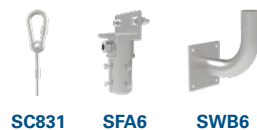
*Consult customer service for lead time.

Accessories (ordered separately)

BLHN2	Bull horn, 2 tenon, gray
BLHN3	Bull horn, 3 tenon, gray



SC831	Safety cable
SFA6	Slip fitter
SWB6	Slip fitter wall mount adapter

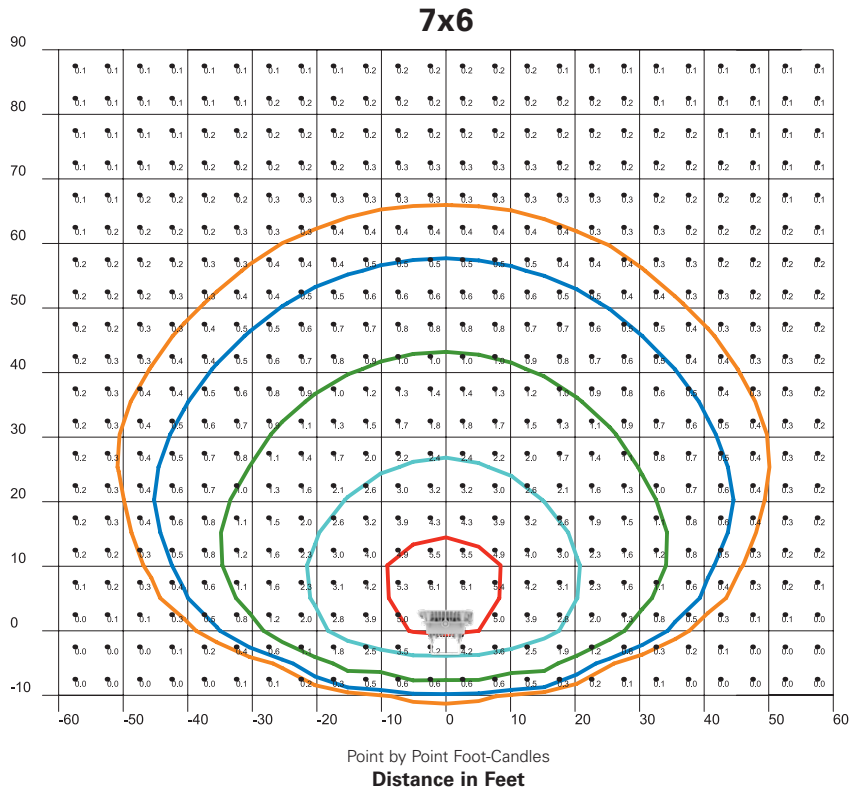


Replacement driver kits (ordered separately)

FMVA-9-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for FMVA-9
FMVA-11-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for FMVA-11
FMVA-13-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for FMVA-13
FMVA-15-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for FMVA-15
FMVA-9-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for FMVA-9
FMVA-11-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for FMVA-11
FMVA-13-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for FMVA-13
FMVA-15-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for FMVA-15

Photometrics

For IES photometric files – please refer to the resource tab of the [FMVA LED product page](#) on Eaton.com



7x6 optics

FMVA-15 Height: 25 ft.; Tilt angle: 45°

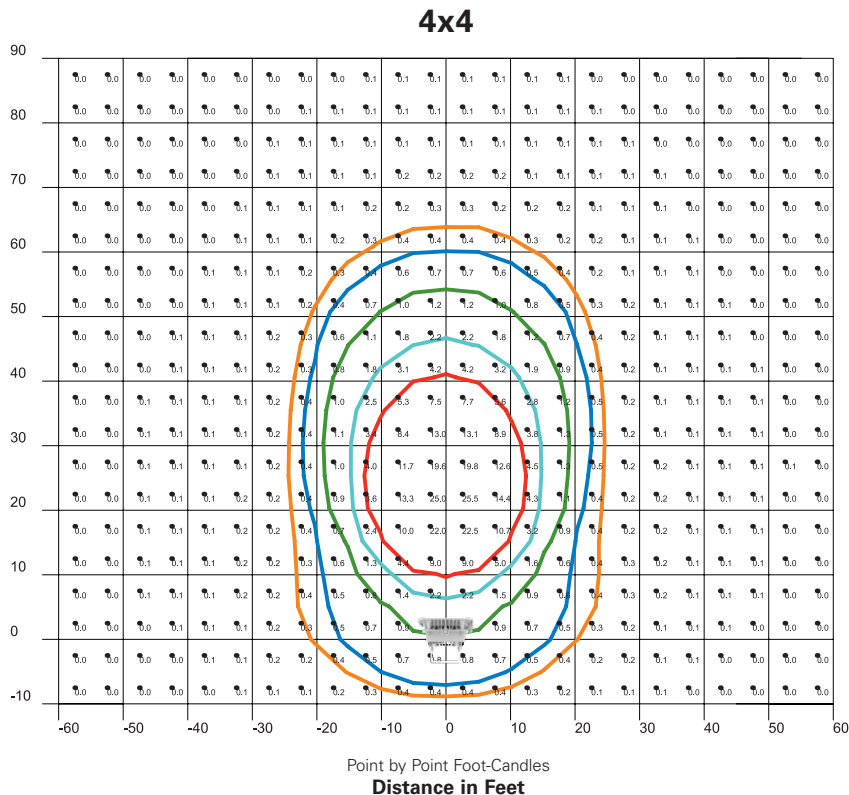
Illuminance (Fc)

Average	0.82
Minimum	0.00
Maximum	6.10

Mounting
height – 25 ft.

Tilt – 45°

PFMA-15 fixture with UNV1 driver and clear glass lens



4x4 optics

FMVA-15 Height: 25 ft.; Tilt angle: 45°

Illuminance (Fc)

Average	0.95
Minimum	0.00
Maximum	25.5

Mounting
height – 25 ft.

Tilt – 45°

PFMA-15 fixture with UNV1 driver and clear glass lens

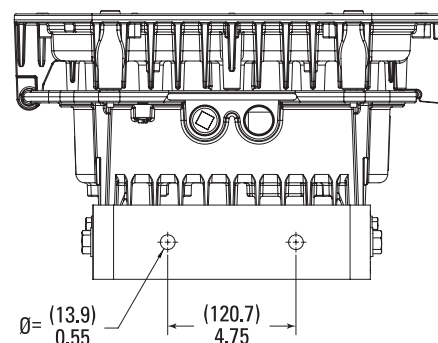
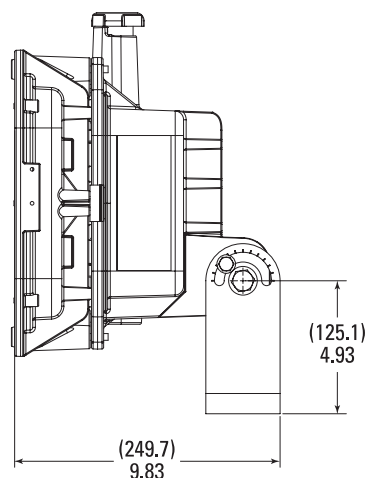
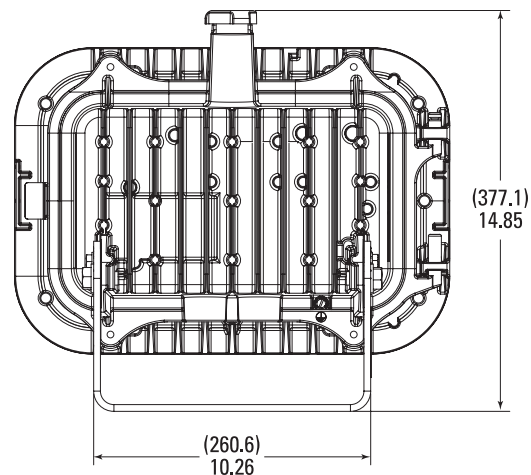
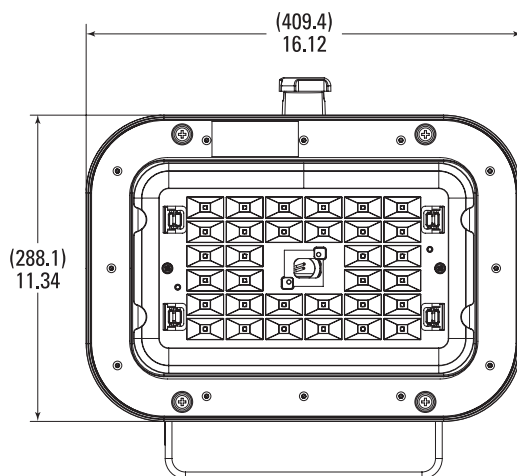


Specifications

Temperature codes:

Model	Ambient temperature	Simultaneous rating			Minimum supply wire temperature
		Class I, Div. 2	Class II, Div. 2	Class I, Div. 2, Class II, Div. 2	
FMVA9L-FMVA11L (UNV1 and UNV3)	40°C	T5	T4	T2D	90°C
	55°C	T5	T4	T2D	90°C
	65°C	T5	T4	T2D	90°C
FMVA13L-FMVA15L (UNV1)	40°C	T5	T4	T2D	90°C
	55°C	T5	T4	T2D	90°C
	65°C	T4A	T3C	T2C	90°C
FMVA13L-FMVA15L (UNV3)	40°C	T4A	T4	T2D	90°C
	55°C	T4A	T4	T2D	90°C
	65°C	T4A	T3C	T2C	90°C

Dimensions: Fixture with standard yoke mount



(mm)
All dimensions: inches

Mounting method	Angle range	Mounting surface
Yoke (standard)	+45° to -60°	Wall, Ceiling, Horizontal Surface/Ground

Additional Champ LED lighting solutions

Champ VMVL & PVML LED lighting



Safe. Reliable. Efficient.
3,000 to 25,000 lumens

Champ FMVA & PFMA LED floodlights



Safe. Reliable. Efficient.
3,000 to 50,000 lumens

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FAX: (315) 477-5179
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crousecustomerctr@eaton.com

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Highland, IL 62249

800-851-7415
FAX: 618-654-1917
Eaton.com/b-lineseries

IEC Electrical (CEAG products)

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FAX: 49 (0) 6271 806-476

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Printed in USA
Publication No. BR403017EN
February 2025

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