

Champ FMVA LED floodlights

9,000 to 15,000 lumens

Cl. I, Div. 2, Groups A, B, C, D
Cl. II, Groups E, F, G

UL Listed
Type 4X; IP67

5L

Our Champ FMVA 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.

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

Certifications and compliances:

NEC/CEC:

- Marine and wet locations, Type 4X, IP67

UL standards:

- UL844 – Hazardous (Classified); UL1598 – Luminaires; UL1598A – Marine; UL8750

CSA standards:

- CSA C22.2 No. 137-M1981 – The Standard for Electric Luminaires for Use in Hazardous Locations
- CSA C22.2 No. 250 – The Standard for Luminaires

FCC:

- FCC Part 15 / ICES-005 Ver. 5
CAN ICES-005 (A) / NMB-005 (A)



Standard materials:

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

LED system:

- High intensity discrete power emitters
- Cool white (5000K, 70 CRI) (standard); deep warm (2200K, 70 CRI), warm white (3000K, 80 CRI) or neutral white (4000K, 80 CRI) (optional)
- 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



Photometrics:

- Refer to www.eaton.com (under the Resources tab of each product family) for specific photometric IES files

Electrical ratings:

Model	Weight Lbs. (Kg.)	Nominal lumens	Efficacy ^A	Wattage	Voltage	Amps	Power factor	THD	Surge protection
FMVA-9-UNV1	24.92 (11.30)	9,261	162 lm/W	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 lm/W	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 lm/W	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 lm/W	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 lm/W	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 lm/W	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 lm/W	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 lm/W	105.38	347-480 VAC, 50/60 Hz	0.30 - 0.22	≥ 0.90	≤ 20%	6kV

^A Consult IES files for exact performance data.

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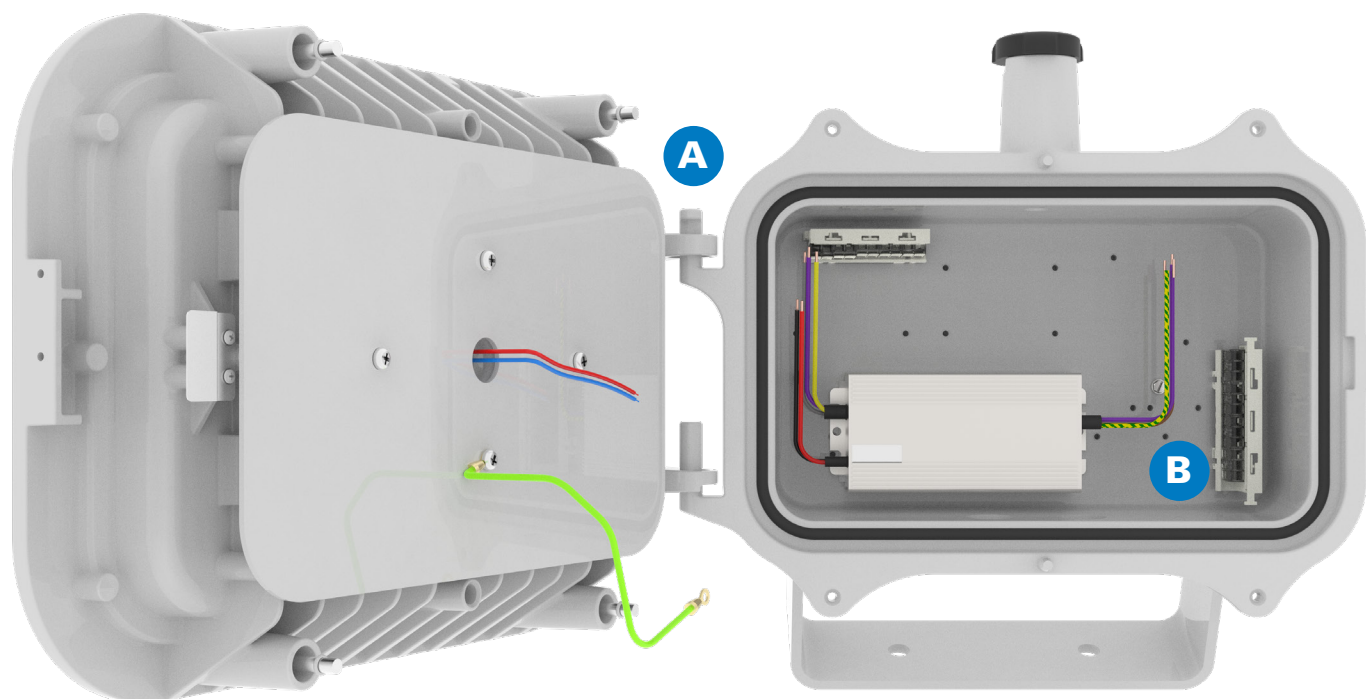
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INSTALLATION EASE



A Lightweight & easy access

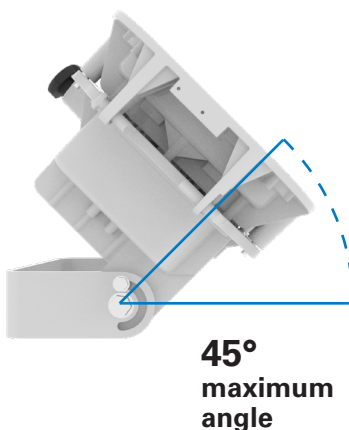
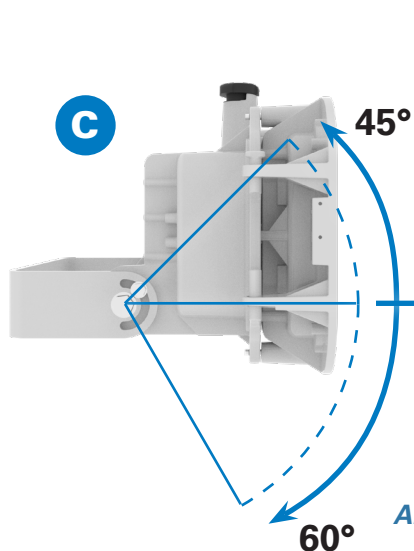
- Driver is field replaceable for extended life even beyond the warranty
- Removable cover for LED engine and hinged driver compartment enables faster installation, access to wiring and field maintenance
- 22% weight reduction from previous generation Champ floodlight models

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



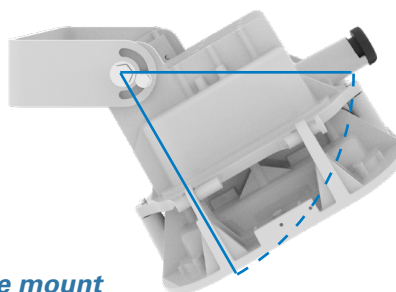
C



45°
maximum
angle

C Versatile mounting options

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



60°
maximum
angle

All units come standard with a yoke mount

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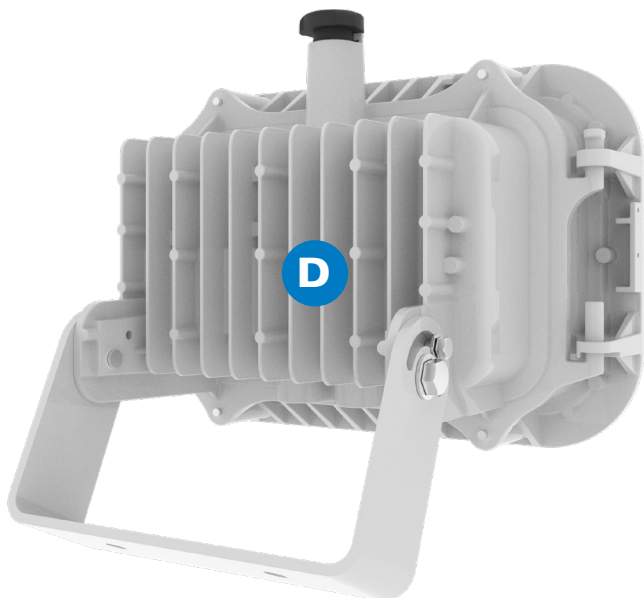
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RELIABLE PERFORMANCE

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



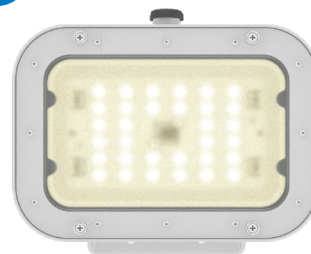
NEMA 7X6

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 (standard); white or bronze optional



White



Gray



Bronze

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Ordering information:

Part number example

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

FMVA - 9 - W - 76 - M20 - DG - UNV1 - WH - 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 (cool white)
N ^B	4000K, 80 CRI (neutral white)
W	3000K, 80 CRI (warm white)
22 ^B	2200K, 70 CRI (deep warm)

Beam pattern	
76	NEMA 7x6
44	NEMA 4x4

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

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

Lens material	
BLANK	Clear glass lens
DG	Diffused glass lens
PC ^B	Clear polycarbonate lens

Epoxy powder coat	
BLANK	Gray
WH ^B	White
BZ ^B	Bronze

Accessories (ordered separately):

Description	Cat. #	Description	Cat. #
• Bull horn, 2 tenon, gray	BLHN2	• Safety cable	SC831
• Bull horn, 2 tenon, bronze	BLHN-BZ2 ^B	• Floodlight slipfitter	SFA6
• Bull horn, 2 tenon, white	BLHN-WH2 ^B	• Slipfitter wall mount adapter	SWB6
• Bull horn, 3 tenon, gray	BLHN3		
• Bull horn, 3 tenon, bronze	BLHN-BZ3 ^B		
• Bull horn, 3 tenon, white	BLHN-WH3 ^B		

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



^BContact factory for lead time.

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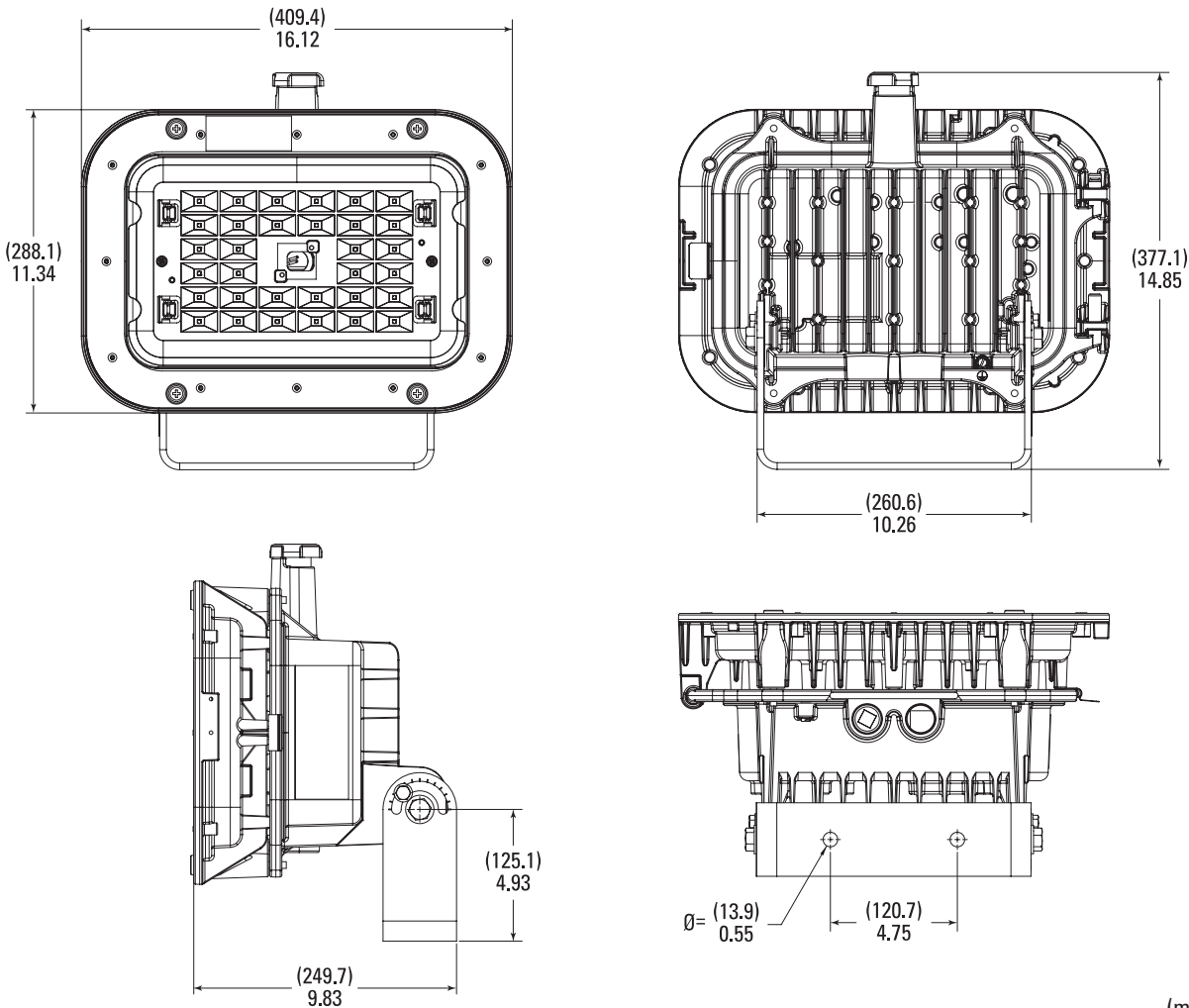
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Dimensions – standard yoke mount:



(mm)
All dimensions: inches

Mounting method	Angle range	Mounting surface
Yoke (standard)	+45° to -60°	Wall, ceiling, horizontal surface/ground

Temperature performance data:

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