

LED lighting for harsh & heavy industrial

CROUSE-HINDS
SERIES

Champ PFMA

LED FLOODLIGHTING for heavy industrial areas



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

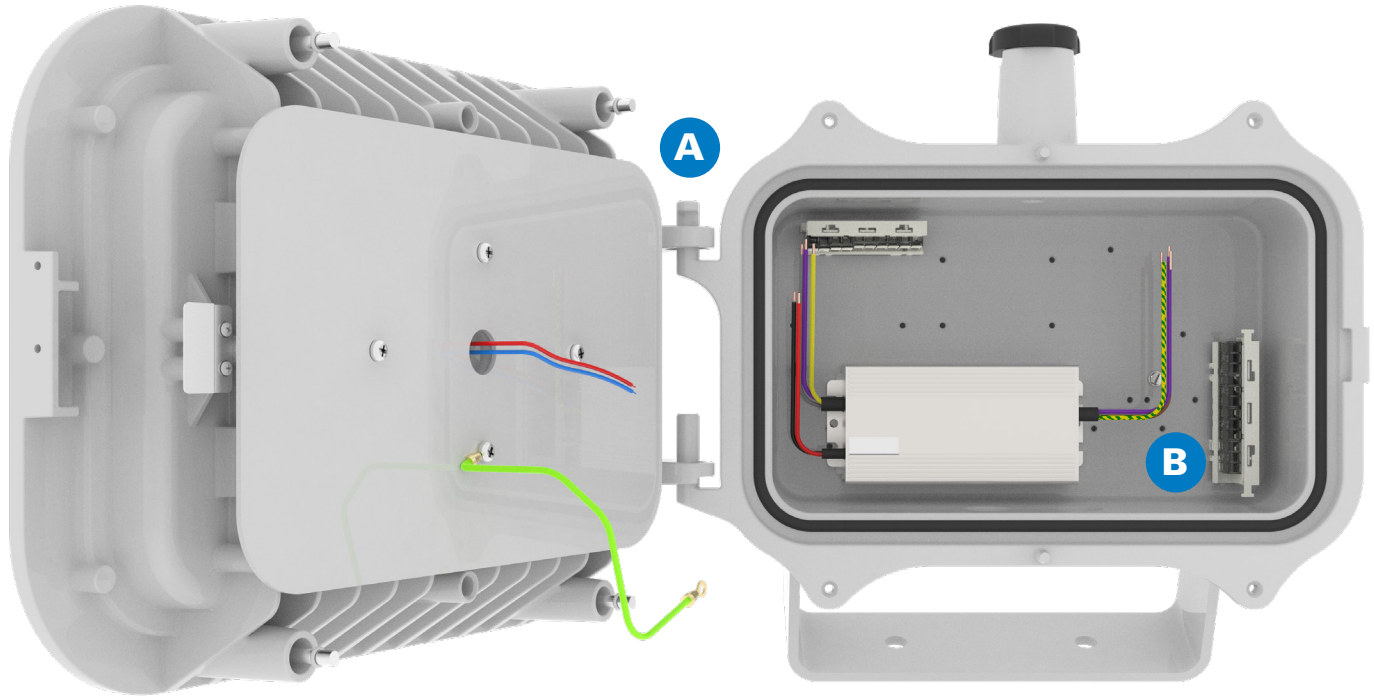
EATON

Powering Business Worldwide

Design features

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

INSTALLATION EASE

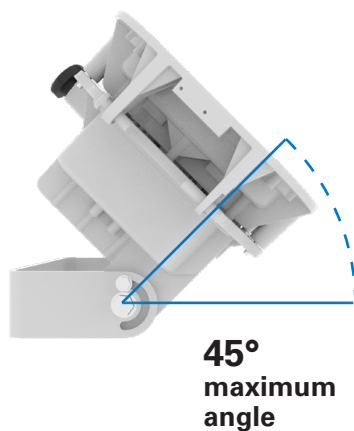
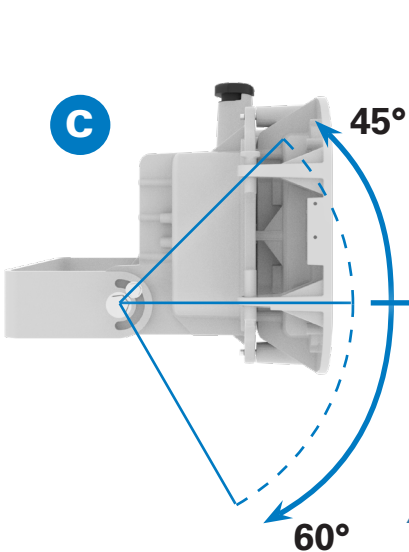
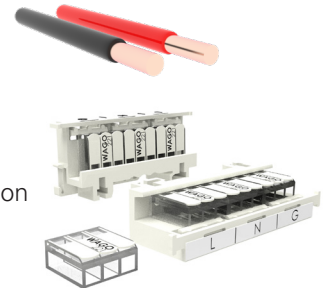


A Light weight & easy access

- 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

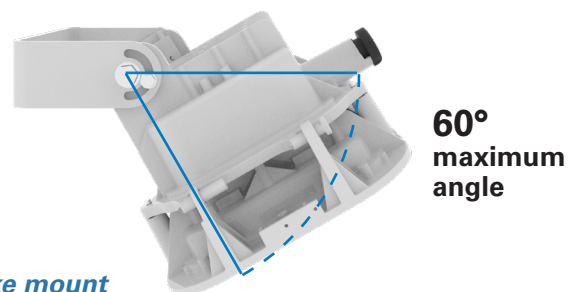
B Now supports up to 10 AWG wire for easier, less costly retrofits!

- 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

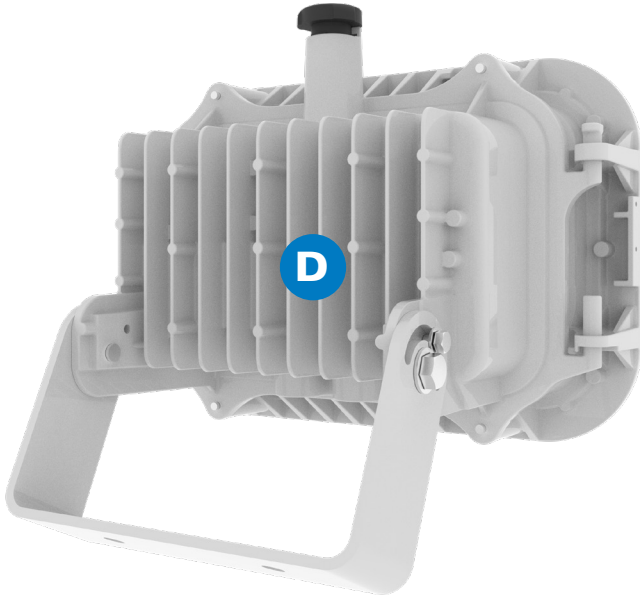


All units come standard with a yoke mount

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 to withstand up-to 3-axis 3G vibration
- Impact tested in accordance with section 17.41 of UL1598



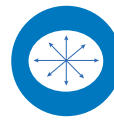
OPTIMIZED LIGHT & QUALITY

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

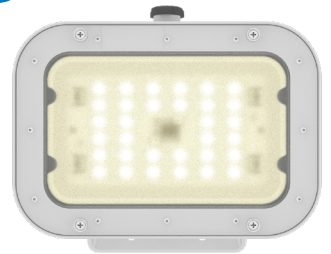


NEMA 7X6
Wide flood distribution provides a large and uniform light pattern

F



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

G



White



Gray



Bronze

Specifications



Certifications & compliances:

- NEC and CEC
 - UL Standards: UL1598, UL1598A, UL50E
 - CSA Standard: C22.2 No. 250
- Marine and Wet Locations, ABS, Type 4X and IP67
- Operating ambient temperature: -40°C to 65°C
- 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 or polycarbonate
- Gaskets - silicone
- External hardware - 316 stainless steel
- Factory-sealed, no external seals required

Applications:

- For general area illumination of locations with mounting heights from 15 to 30 feet
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- IP67, Type 4X, marine, wet locations and hose-down environments
- Manufacturing plants, heavy industrial, chemical, food and beverage facilities, mining, platforms, loading docks, tunnels, outdoor wall and pole mounted areas

LED system:

- High intensity discrete power emitters
- Standard: cool white (5000K, 70 CRI); optional: deep warm (2200K, 70 CRI), warm white (3000K, 80 CRI) or neutral white (4000K, 80 CRI)
- NEMA 7x6 or 4x4 optical patterns available
- Dimmable driver 0-10V
- Rated life of 60,000 hours continuous operation at 55°C operating ambient temperature
- 5 year fixture warranty

Electrical ratings:

Model	Weight lbs. (kg.)	Nominal lumens	Efficacy† lm/W	Wattage	Voltage	Amps	Power Factor	THD	Surge protection
PFMA-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
PFMA-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
PFMA-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
PFMA-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
PFMA-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
PFMA-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
PFMA-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
PFMA-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.

Ordering information

Champ PFMA LED, 9,000 lumens, 3000K warm white, yoke mount, diffused glass lens, 120-277 VAC driver, white epoxy powder coat paint

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

PFMA - 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 (<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.

Lens material

BLANK	Clear glass
DG	Diffused glass
PC*	Clear polycarbonate

*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
WH*	White
BZ*	Bronze

*Consult customer service for lead time.

Accessories (ordered separately)



BLHN2	Bull horn, 2 tenon, gray
BLHN-BZ2*	Bull horn, 2 tenon, bronze
BLHN-WH2*	Bull horn, 2 tenon, white
BLHN3	Bull horn, 3 tenon, gray
BLHN-BZ3*	Bull horn, 3 tenon, bronze
BLHN-WH3*	Bull horn, 3 tenon, white

*Consult customer service for lead time.

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

Additional Champ LED lighting solutions

Champ VMVL & PVML LED lighting

Safe. Reliable. Efficient.

3,000 to 25,000 lumens

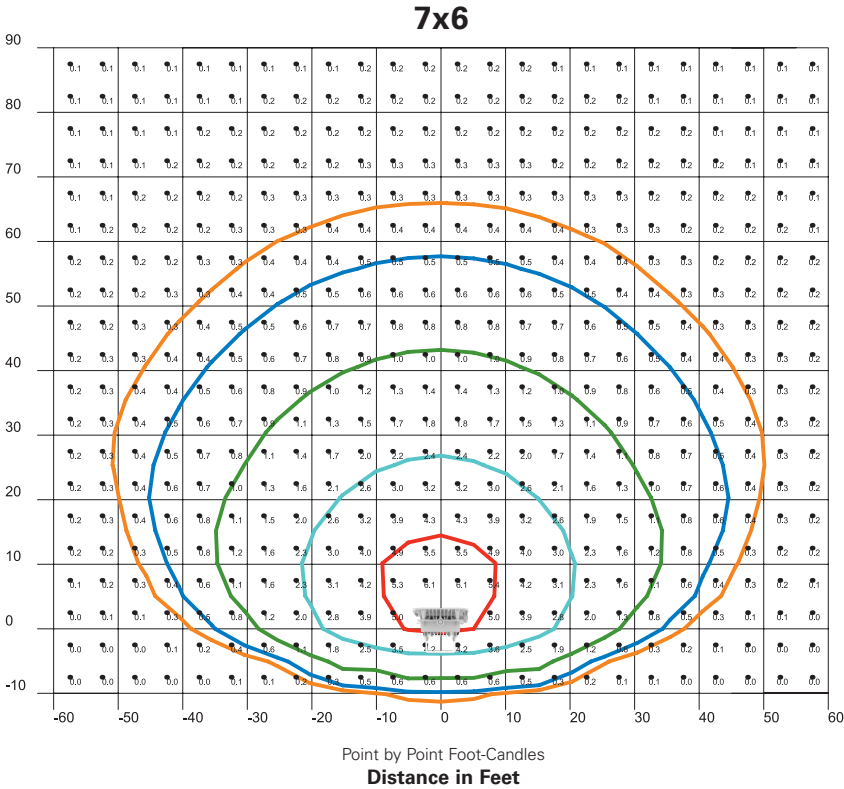
Champ FMVA & PFMA LED floodlights

Safe. Reliable. Efficient.

3,000 to 50,000 lumens

Photometrics

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

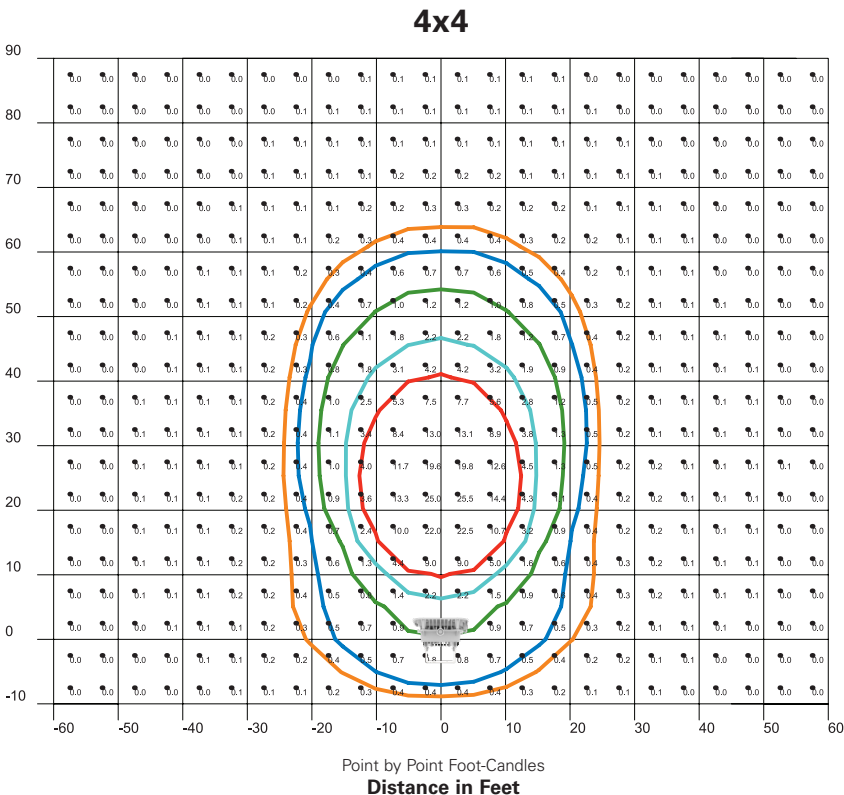


7x6 optics

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

Illuminance (Fc)		Mounting height – 25 ft. Tilt – 45°
Average	0.82	
Minimum	0.00	
Maximum	6.10	

PFMA-15 fixture with UNV1 driver and clear glass lens



4x4 optics

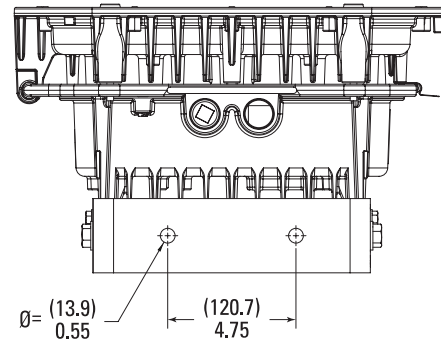
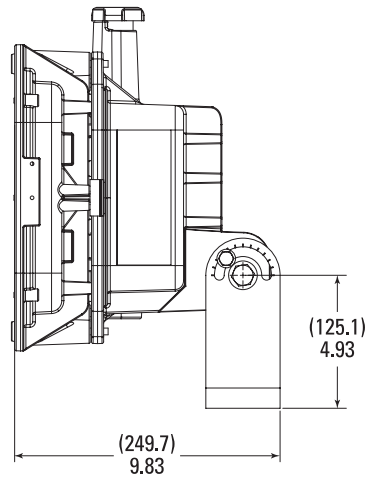
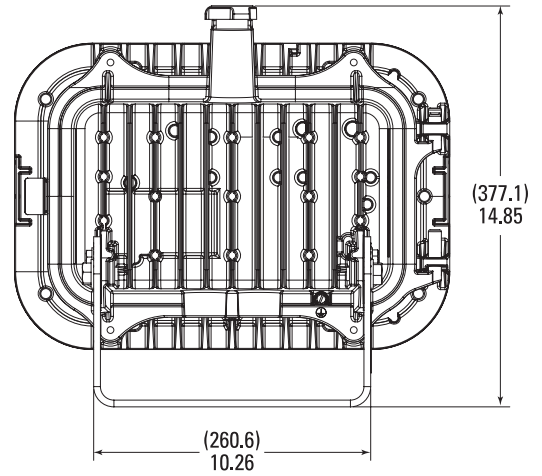
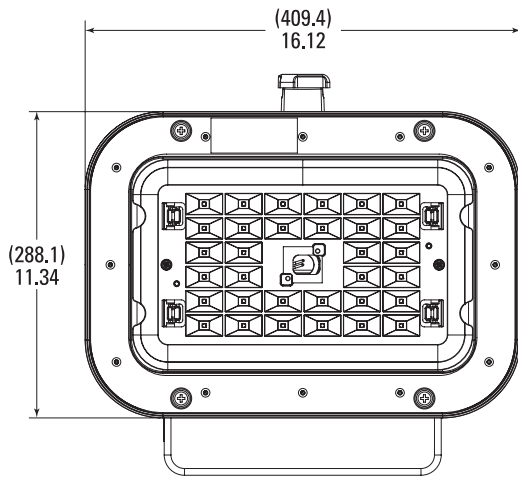
PFMA-15 Height: 25 ft.; Tilt angle: 45°

Illuminance (Fc)		Mounting height – 25 ft. Tilt – 45°
Average	0.95	
Minimum	0.00	
Maximum	25.5	

PFMA-15 fixture with UNV1 driver and clear glass lens



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

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Printed in USA
Publication No. BR403016EN
April 2024

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