LED lighting for harsh & heavy industrial

CROUSE-HINDS SERIES

Champ PFMA

LED FLOODLIGHTING for heavy industrial areas



Safe. Reliable. Efficient.

9,000 to 25,000 lumens

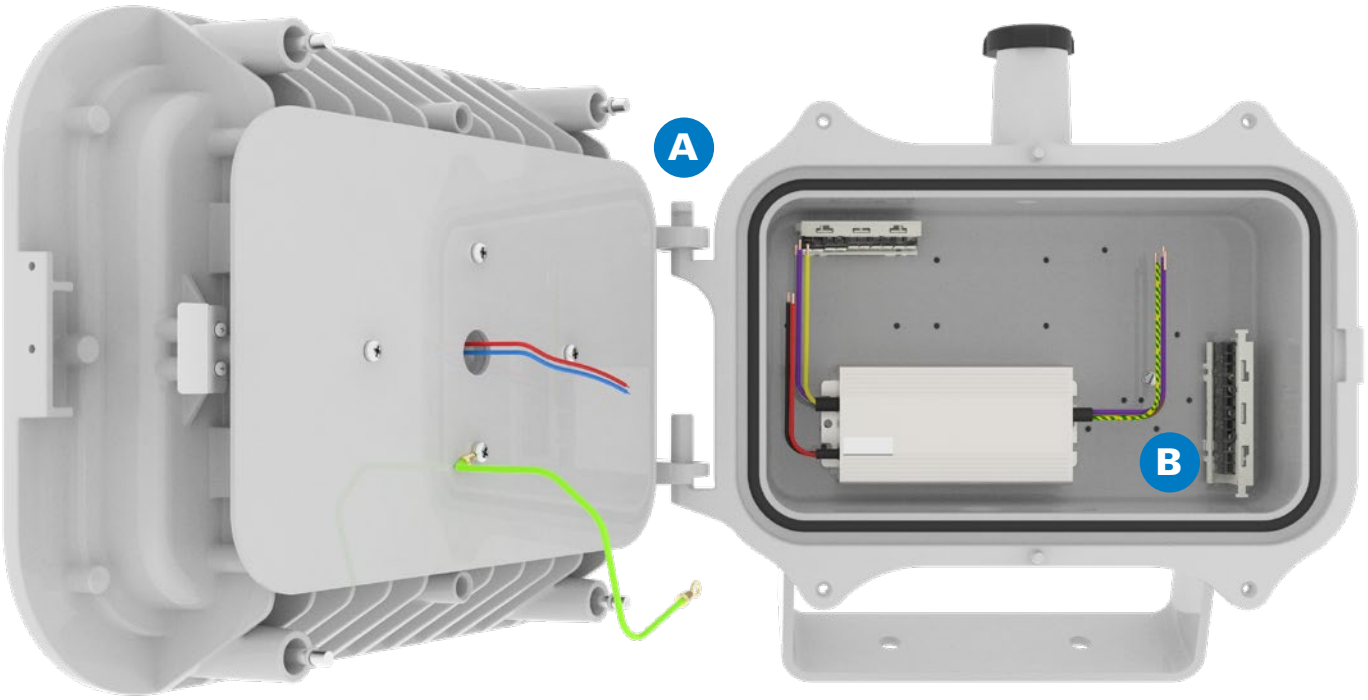
EATON

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



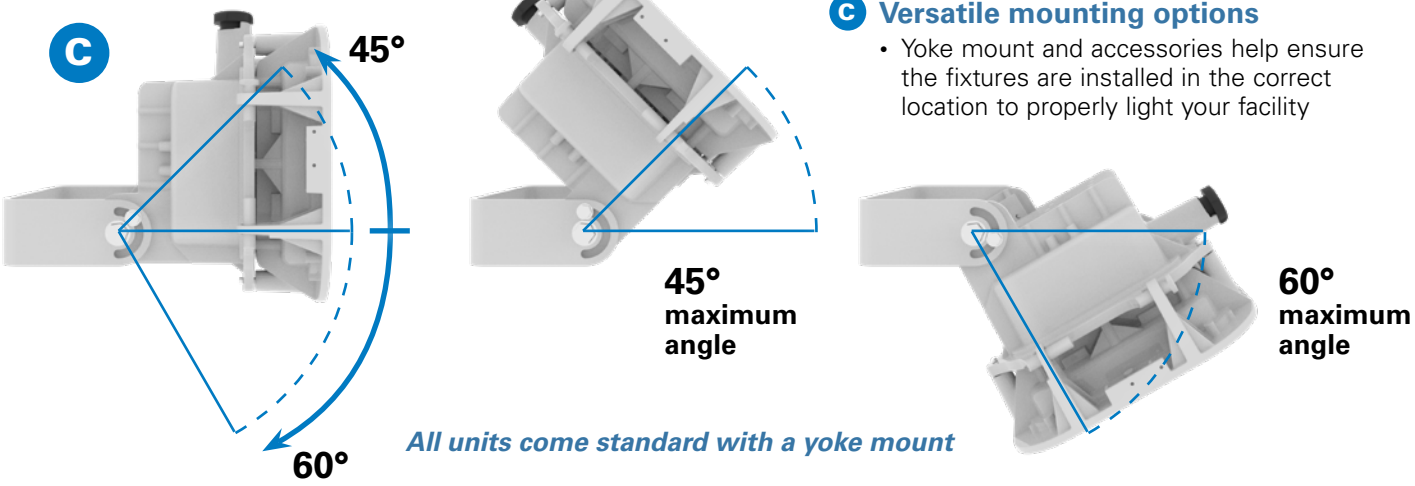
A Light weight & serviceable

- Driver and light engine subassembly 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

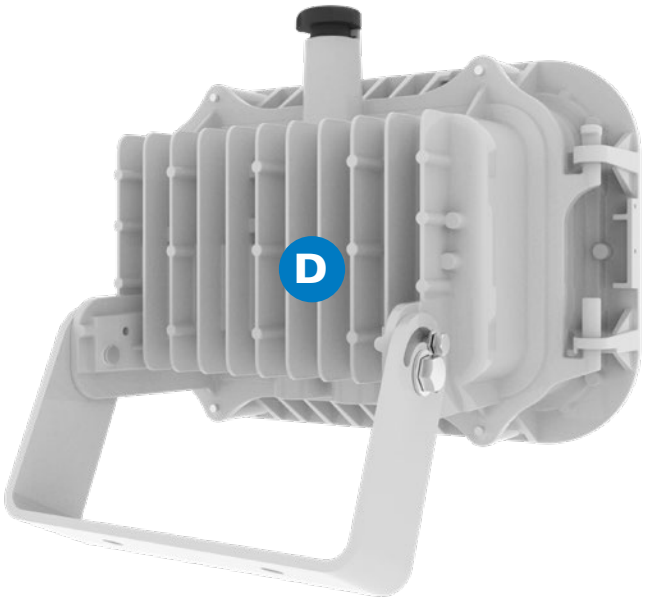
- Yoke mount and accessories help ensure the fixtures are installed in the correct location to properly light your facility

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 -40ºC to 65ºC
- Type 4X, IP66/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



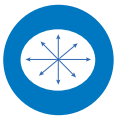
OPTIMIZED LIGHT & QUALITY

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

G



H Visor option available for dark sky readiness

H



Specifications



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
- IP66/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

Qualifications:

- DesignLights Consortium® Qualified*

*Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



Certifications & compliances:

- NEC and CEC
  - UL Standards: UL1598, UL1598A, UL50, UL50E
  - C22.2 No. 250.0
  - C22.2 No. 250.13
  - CSA C22.2 No. 94.1
  - CSA C22.2 No. 94.2
- Marine and Wet Locations, Type 4X and IP66/IP67
- Operating ambient temperature: -40°C to 65°C
- FCC part 15 / ICES-005 ver. 5
  CAN ICES-005 (A) / NMB-005 (A)
- CE2903

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

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)
- 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

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-20-UNV1	24.95 (11.32)	20735	145	143	100-277 VAC, 50/60 Hz	1.58-0.51	0.99	≤ 20%	6kV (ANSI C136.2)
PFMA-25-UNV1	24.95 (11.32)	25296	130	194	100-277 VAC, 50/60 Hz	2.16-0.64	0.99	≤ 20%	6kV (ANSI C136.2)
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
PFMA-20-UNV3	24.95 (11.32)	20735	155	134	347-480 VAC, 50/60 Hz	0.54-0.26	0.99	≤ 20%	6kV
PFMA-25-UNV3	25.95 (11.77)	25296	139	182	347-480 VAC, 50/60 Hz	0.73-0.36	0.99	≤ 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, visor, 120-277 VAC driver, gray epoxy powder coat paint

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

PFMA - 9 - W - 76 - M20 - DG - V - 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
20	20,735 nominal lumens
25	25,296 nominal lumens

Color temperature

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

*Consult customer service for lead time.
Not available in 20 and 25L.

Beam pattern

76	NEMA 7x6
44*	NEMA 4x4

*Consult customer service for lead time.

Entries

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

Lens material

BLANK	Clear glass
DG	Diffused glass
PC*	Clear polycarbonate

*Consult customer service for lead time.
Not available in 20 and 25L.

Voltage

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

Accessories

Blank	No accessories
G	Bolt-on wireguard (P63)
V	Standard visor (DSV5)
GV	Bolt-on wireguard (P63) & standard visor (DSV5)

Epoxy powder coat

BLANK	Gray

Replacement light engine ordering information

Replacement light engine ordering information: PFMA-W-76-DG-V-ML-LED-KIT#

PFMA - W - 76 - DG - V - ML-LED-KIT

Color temperature

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

††Consult customer service for lead time.
Not available in 20L and 25L.

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. Not available in 20L and 25L.

Accessories

Blank	No accessories
G	Bolt-on wireguard (P63)
V	Standard visor (DSV5)
GV	Bolt-on wireguard (P63) & standard visor (DSV5)

LED Kit

ML-LED-KIT	For 9-15L Models
HL-LED-KIT	For 20-25L Models

The model information shown on the kit nameplate takes precedence over the details on the luminaire nameplate regarding LED subassembly features such as Lens type, secondary optics, CCT, and guard/visor. LED light engine kits shall be used with ETL (Intertek) listed Crouse-Hinds hazardous locations luminaires, catalog numbers beginning with PFMA and must end with the M2 suffix.

Accessories *(ordered separately)*

BLHN2	Bull horn, 2 tenon, gray
BLHN3	Bull horn, 3 tenon, gray
P63	Bolt-on wireguard
DSV5	Standard visor
SC831	Safety cable
SFA6	Slip fitter
SWB6	Slip fitter wall mount adapter



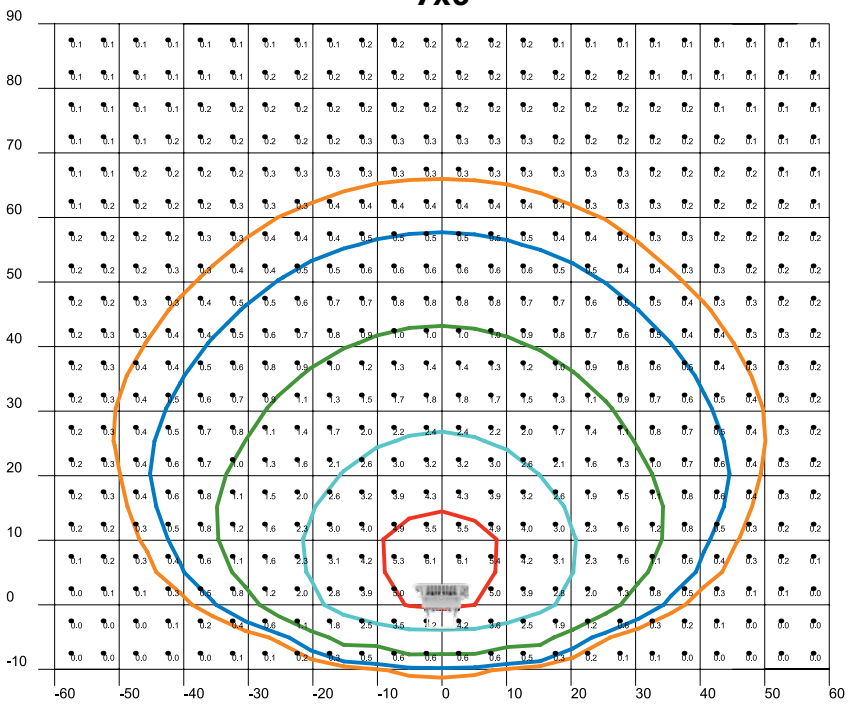
Replacement driver kits *(ordered separately)*

FMVA-9-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for PFMA/FMVA-9
FMVA-11-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for PFMA/FMVA-11
FMVA-13-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for PFMA/FMVA-13
FMVA-15-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for PFMA/FMVA-15
FMVA-20-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for PFMA/FMVA-20
FMVA-25-UNV1-M2-DRIVER KIT	UNV1 M2 replacement driver kit for PFMA/FMVA-25
FMVA-9-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for PFMA/FMVA-9
FMVA-11-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for PFMA/FMVA-11
FMVA-13-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for PFMA/FMVA-13
FMVA-15-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for PFMA/FMVA-15
FMVA-20-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for PFMA/FMVA-20
FMVA-25-UNV3-M2-DRIVER KIT	UNV3 M2 replacement driver kit for PFMA/FMVA-25

Photometrics

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

7x6



Point by Point Foot-Candles
Distance in Feet

7x6 optics

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

Illuminance (Fc)	
Average	0.82
Minimum	0.00
Maximum	6.10

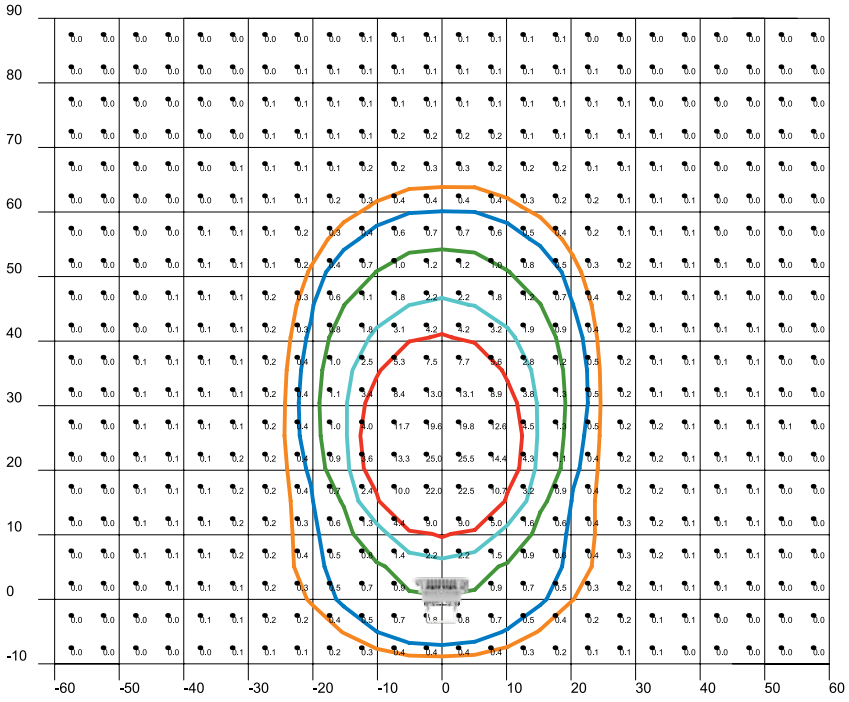
Mounting height – 25 ft.

Tilt – 45°

PFMA-15 fixture with UNV1 driver and clear glass lens

0.35 Fc | 0.50 Fc | 1.00 Fc | 2.50 Fc | 5.00 Fc

4x4



Point by Point Foot-Candles
Distance in Feet

4x4 optics

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

Illuminance (Fc)	
Average	0.95
Minimum	0.00
Maximum	25.5

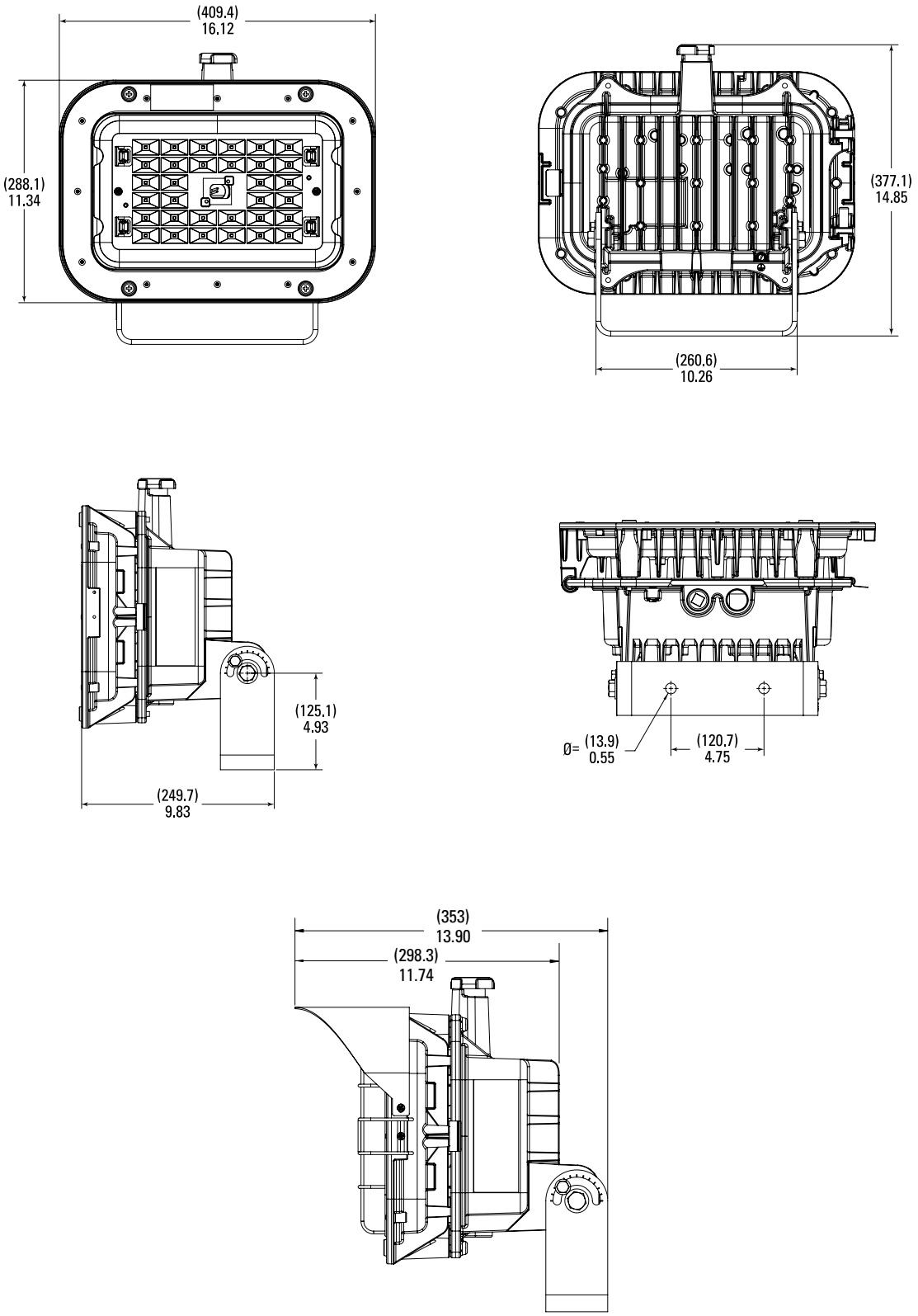
Mounting height – 25 ft.

Tilt – 45°

PFMA-15 fixture with UNV1 driver and clear glass lens

0.35 Fc | 0.50 Fc | 1.00 Fc | 2.50 Fc | 5.00 Fc

Dimensions: Fixture with standard yoke mount



All dimensions: inches (mm)

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

Additional Champ LED lighting solutions





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Syracuse, NY 13208

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FAX: (315) 477-5179
FAX Orders Only:
(866) 653-0640

crousecustomerctr@eaton.com

Eaton's B-Line business

509 West Monroe Street
Highland, IL 62249

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

IEC Electrical
(CEAG products)

49 (0) 6271 806-500
FAX: 49 (0) 6271 806-476

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