Hazard·Gard XPLA
LED lighting for hazardous areas

Safe. Reliable. Efficient.
2 models – 3,800 & 8,300 lumens

FAT•N

Powering Business Worldwide

Hazard•Gard XPLA explosionproof LEDs

Safe.
Reliable.
Efficient.

Featuring a broad range of LED luminaires for harsh and hazardous environments, Eaton's Crouse-Hinds delivers lighting solutions that perform reliably in even the worst operating conditions. This reduces your energy, maintenance and manpower costs.

Why LED?

Useful life
Rated life is up to 60,000 hours of maintenance-free and safe operation

Energy efficiency
LED average energy consumption is 61% less than T12, T8 and T5HO fluorescent fixtures

Start/restart time
Instant illumination vs. 10 minute restrike time for fluorescent

Light quality
Higher color rendering and color temperature compared to fluorescent

Environmental benefits
Mercury-free LED eliminates disposal costs and lower energy consumption for a smaller carbon footprint

Why Crouse-Hinds?

Industry-best reliability
Built to withstand extreme temperatures, vibration, water and dust

Thermal management
Effective heat sinking ensures longer life

Quality of light
Custom optics designed to maximize light distribution and intensity

Field servicable drivers
Easy access to drivers for service or replacement

Design features

Designed for safety. Hazard·Gard XPLA linear LED luminaires are engineered to stand up to the demanding conditions faced in Class I, Division 1 hazardous areas. The XPLA stands up to high vibration, hose down, shock and impact, while delivering long life and high lumen performance for up to 10 years.

Custom optics:
- Standard (120°) beam spread maximizes illumination on wall panels

Comprehensive certification:
- Single model certified for use in Class I, Division 1 and Class II, Division 1 harsh and hazardous applications

Quick & easy installation:
- Easy access to drivers and wiring
- No custom brackets or hardware needed
- Two mounting options available

Slim profile:
- Less than 5" fixture height (excluding mounting brackets)
- Perfect for mounting in confined spaces or low height areas

Built to last:
- Ingress protection from hose down water or diesel fuel in harsh operational conditions – passed 2,000 psi high pressure test
- Vibration, impact and shock-resistant – passed 5G, 3-axis vibration test
- 60,000 hour lifetime at 55°C ambient
- 100,000+ hour lifetime at 40°C and below

Why choose Hazard·Gard XPLA LEDs?

Reliable lighting. XPLA LED luminaires are engineered to deliver high lumen output and maintenance-free long life in the toughest conditions.

XPLA4-UNV1 vs. T12HO fluorescent

58%
ENERGY EFFICIENCY

61%
TOTAL COST OF OWNERSHIP

100%
MAINTENANCE REDUCTION

Assumptions: Calculations based on overall life of the LED system. Energy cost of $.09 per kilowatt; 24 hour per day operation; labor rate of $75 each for 2 workers; average time for fixture maintenance of 1 hour.

Hazard•Gard XPLA LED luminaires

Hazard•Gard XPLA explosionproof linear LEDs are specifically designed to replace fluorescent T12, T8 and T5HO lighting in Class I, Division 1 and Class II, Division 1 areas. The rugged and durable design features the industry's most versatile and flexible mounting options. The XPLA is the ideal lighting solution for hazardous, high vibration, impact and hose down applications.

Applications:

Wastewater treatment, oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, tunnels, outdoor wall and stanchion mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.

Key features & benefits:

- High efficacy: up to 139 LPW (XPLA4 UNV34)
- 5000K CCT, 72 CRI
- -25°C to +55°C ambient operating temperature (standard fixture only)
- Low profile fixture (<5" height)
- Flush and swivel mount options
- Wide optics for uniform illumination
- Four points of secondary retention and loop feed wiring
- 2,000 psi high pressure hose rated
- 5G 3-axis vibration
- 4kV line to line, 6kV line to earth surge protection
- 5 year fixture warranty - standard models*
- 1 year fixture warranty - emergency model

* Refer to the authorized distributor price book for Crouse-Hinds standard Terms and Conditions.
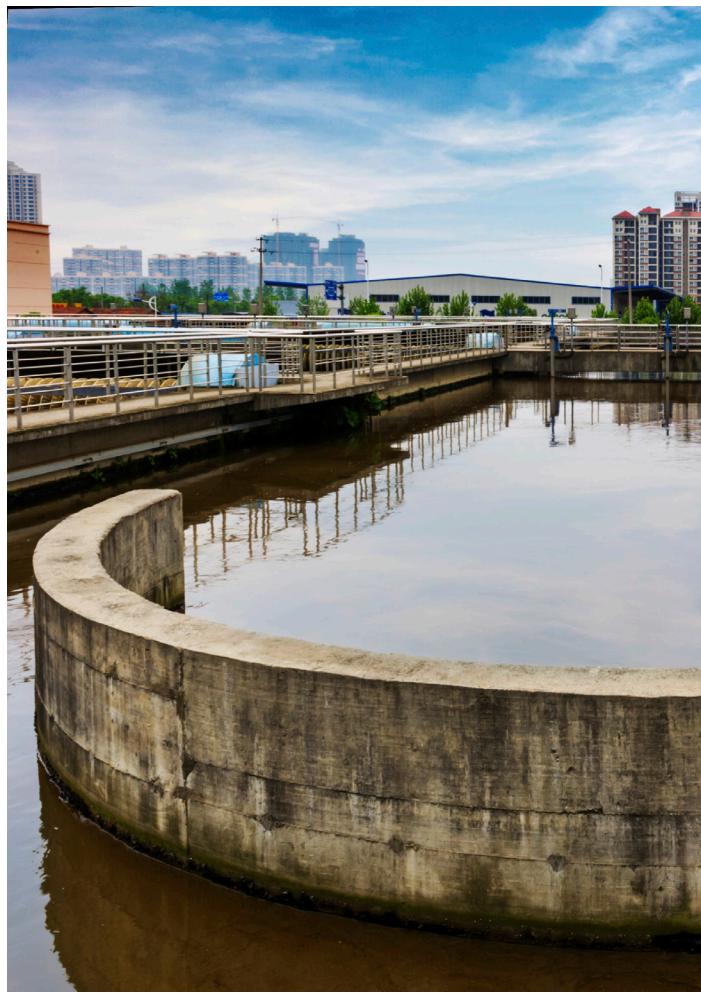
Energy consumption comparison

2 foot XPLA linear LED vs. fluorescent
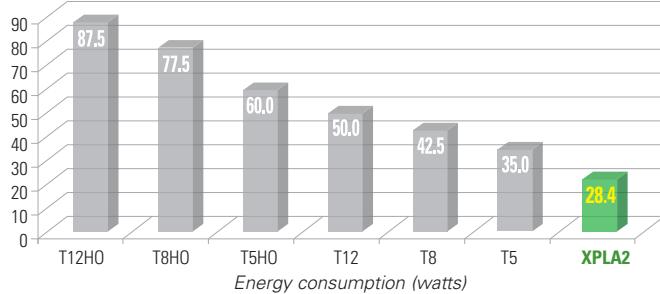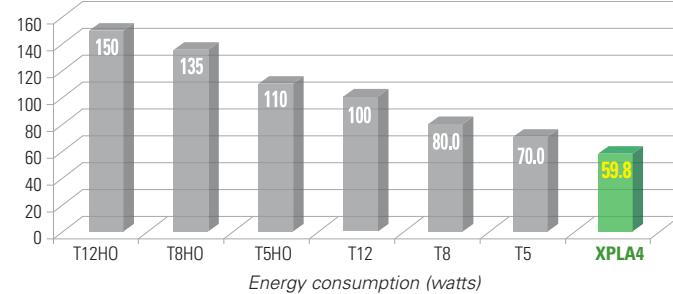
T12HO	T8HO	T5HO	T12	T8	T5	XPLA2
87.5	77.5	60.0	50.0	42.5	35.0	28.4

Energy consumption (watts)

4 foot XPLA linear LED vs. fluorescent

T12HO	T8HO	T5HO	T12	T8	T5	XPLA4
150	135	110	100	80.0	70.0	59.8

Energy consumption (watts)

Model	Typical lumens	Wattage	Lumens per watt	Equivalent HID luminaire	Typical energy savings / lifetime
XPLA2	3,800	28.4	136	T12HO	Up to 62%
				T8HO	Up to 57%
				T5HO	Up to 45%
				T12	Up to 34%
				T8	Up to 22%
				T5	Up to 6%

Typical lumens +/- 10%. All luminaires in the comparison are 2 ft., 2 lamp

Model	Typical lumens	Wattage	Lumens per watt	Equivalent HID luminaire	Typical energy savings / lifetime
XPLA4	8,300	59.8	139	T12HO	Up to 58%
				T8HO	Up to 43%
				T5HO	Up to 53%
				T12	Up to 37%
				T8	Up to 21%
				T5	Up to 10%

Typical lumens +/- 10%. All luminaires in the comparison are 2 ft., 2 lamp

XPLA tested to withstand 2,000 psi hose test at 5 ft. distance

Electrical ratings:

UNV1	Input power (watts)	Input amps at 120-277 VAC
XPLA2	28.3	0.23-0.11
XPLA4	59.8	0.24-0.11

UNV34	Input power (watts)	Input amps at 347-480 VAC
XPLA4	45.1	0.096-0.127

*XPLA2 model not available with UNV34

UNV1	
Voltage range, VAC	120-277V at 50/60 Hz
Voltage range, VDC	127-300V

UNV34	
Voltage range, VAC	347-480V at 50/60 Hz

All models	
Power factor	≥0.90
THD	≤15%

Certifications:

NEC/CEC standards:
- Class I, Division 1, Groups C, D
- Class II, Division 1, Groups E, F, G
- Class III
- NEMA 4X; IP66
- Marine and wet locations
- Paint spray rated

UL standards:
- UL 50E Enclosures for Electrical Equipment, Environmental Considerations
- UL844 Electrical Fixture Hangers for Hazardous Locations
- UL924 Emergency Lighting and Power Equipment
- UL1598 Luminaire
- UL1598A Luminaire for Installation on Marine Vessels
- UL 8750 Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products

CSA standard:
- C22.2 No. 137 and 250

Materials:
Housing:
- Copper-free aluminum
- Corro-free™ epoxy powder coat (optional)

Lens:
- Glass
- Diffused glass (optional)

Mounting (ordered separately):
Versatile mounting options:
- Flush mount
- Swivel/surface mount
- Pole mount

Temperature codes:

Ambient temp.	Supply wire	Class I, Div. 1	Class II, Div. 1	Simultaneous presence	Paint spray
40°C*	75°C	T6	T5	T6	T5
55°C	75°C	T6	T5	T5	T5
65°C	90°C	T5	T4A	T4A	T5

* EM rated to +40°C only.

Weights:

Luminaire	lbs.	kg.
XPLA2	18.0	8.2
XPLA4	27.0	12.2
Emergency	37.8	17.1

Emergency solutions

Applications:

- Explosionproof rated indoor and outdoor egress and emergency lighting for areas requiring uninterrupted lighting during power failure

Key features:

- Operating ambient: -20°C to +40°C
- 90-minute minimum run time in emergency mode
- 7,513 lumen output (784 in emergency mode)
- 60,000 hours rated life at 40°C
- IP66 rated enclosure with NiCad batteries
- Provision of LED indicator and manual test switch to check battery operation
- Epoxy painted powder coated housing
- 1 year warranty

Model	EM output	Normal output	Weight (lbs.)
XPLA4-UNV1-EM-P	784 lumens	7,513 (100-277V)	37.8

Electrical ratings:

UNV1	Input power (watts)	Input amps at 120-277 VAC
XPLA4 EM P	73.2	0.61-0.73

Voltage range, VAC	120-277V at 50/60 Hz
Power factor	≥0.90
THD	≤15%

Certifications and compliances:

NEC/CEC:

- Class I, Division 1, Groups C, D
- Class II, Division 1, Groups E, F, G
- Class III
- Wet locations, IP66, Type 4X

CSA standard:

- CSA C22.2 Nos. 137, 141

UL standards:

- UL 50E Enclosures for Electrical Equipment, Environmental Considerations
- UL844 Electrical Fixture Hangers for Hazardous Locations
- UL924 Emergency Lighting and Power Equipment
- UL1598 Luminaire
- UL1598A Luminaire for Installation on Marine Vessels
- UL 8750 Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
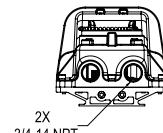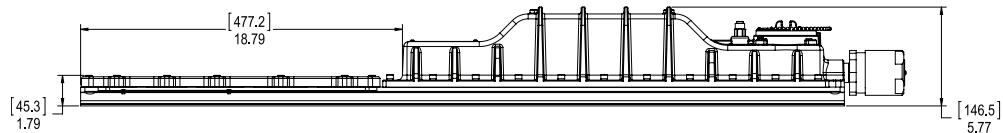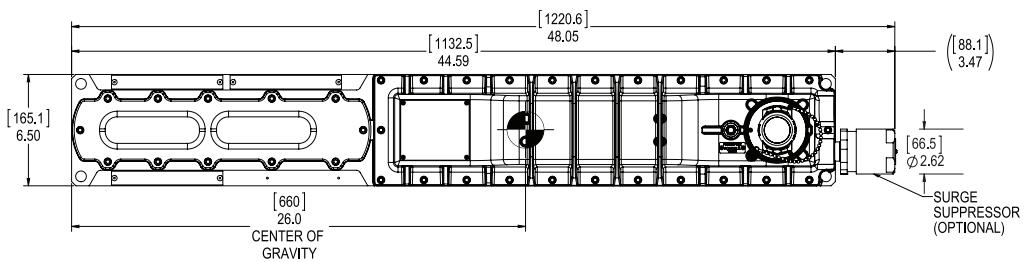
Ordering information

Part number example

XPLAW4-UNV1-S891-S917

XPLA linear LED, warm white, 4 foot, ¾" hubs,120-277 VAC driver, diffused glass lens, natural aluminum finish, low temperature suitability

XPLA W 4 – UNV1 – S891 – S917 –

Series

XPLA	XPLA linear LED luminaire

Color temperature

BLANK	Cool white, 5000K
N	Neutral white, 4000K
W	Warm white, 3000K

Length/lumens

4	4 ft. length, 8,300 lumens
2	2 ft. length, 3,800 lumens

Voltage

UNV1	120-277 VAC; 127-300 VDC
UNV34†	347-480 VAC

†Contact factory for lead time.

Lens

BLANK	Glass
S891	Diffused glass

Options

S917*	-40°C to +65°C suitability
P	Gray epoxy powder coat

* One year warranty.

Battery back-up

EM-P	Emergency battery back-up

Note: Available in 4 ft. length and UNV1 voltage only.

Accessories (ordered separately)

ZP1057MTK	Flush/back mount back plate
ZP1050MTK	Ceiling/swivel mount
PM KIT 1.25	1¼" pole mount kit
PM KIT 1.5	1½" pole mount kit
PM KIT 2.0	2" pole mount kit
SS KIT	Safety chain kit (2 cables)
XPL PS2	Polycarbonate paint spray lens shield kit for 2 ft. fixture
XPL PS4	Polycarbonate paint spray lens shield kit for 4 ft. fixture

Replacement driver kits (ordered separately)

ZPLA2-UNV1-DRIVER KIT	120-277 VAC driver replacement for 2 ft. linear
ZPLA4-UNV1-DRIVER KIT	120-277 VAC driver replacement for 4 ft. linear
ZPLA4-UNV34-DRIVER KIT	347-480 VAC driver replacement for 4 ft. linear
XPLA EM BATTERY KIT	Replacement battery pack for emergency back-up model

Dimensions
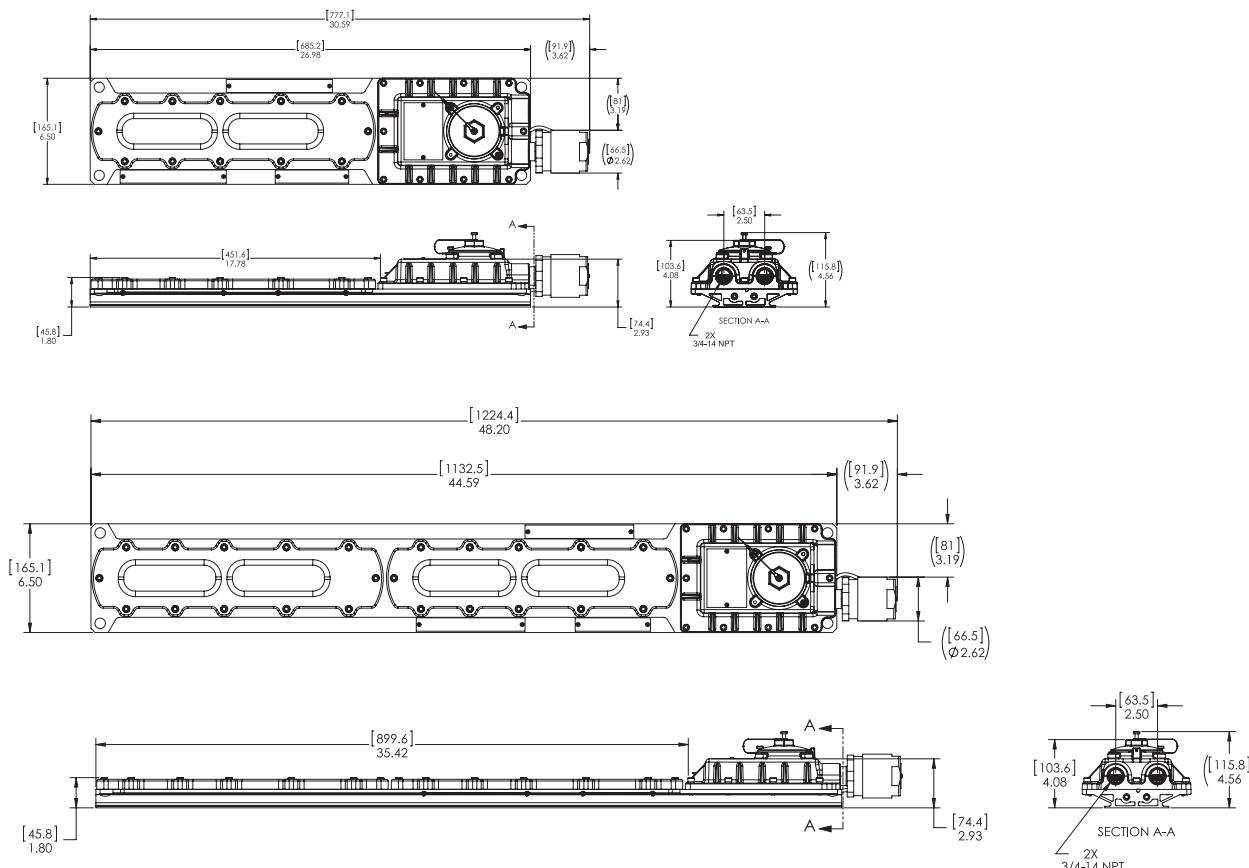
Photometrics

4 ft. XPLA LED with 120° optics vs. 4 ft. 2 lamp T12 EVF
37% lower energy consumption and over twice the average illumination on floor and walls

XPLA4-UNV1 | EVF22082

Model	Average footcandles	
	XPLA4-UNV1	EVF22082
Wall 1	22.22	13.21
Wall 2	20.10	13.07
Wall 3	20.85	13.17
Wall 4	20.29	13.06
Floor	40.72	18.89

XPLA4-UNV1

Wall 3
Wall 4 — Mounting height = 9 ft. — Wall 2
Wall 1
12 ft.
30 ft.

EVF22082

Wall 3
Wall 4 — Mounting height = 9 ft. — Wall 2
Wall 1
12 ft.
30 ft.
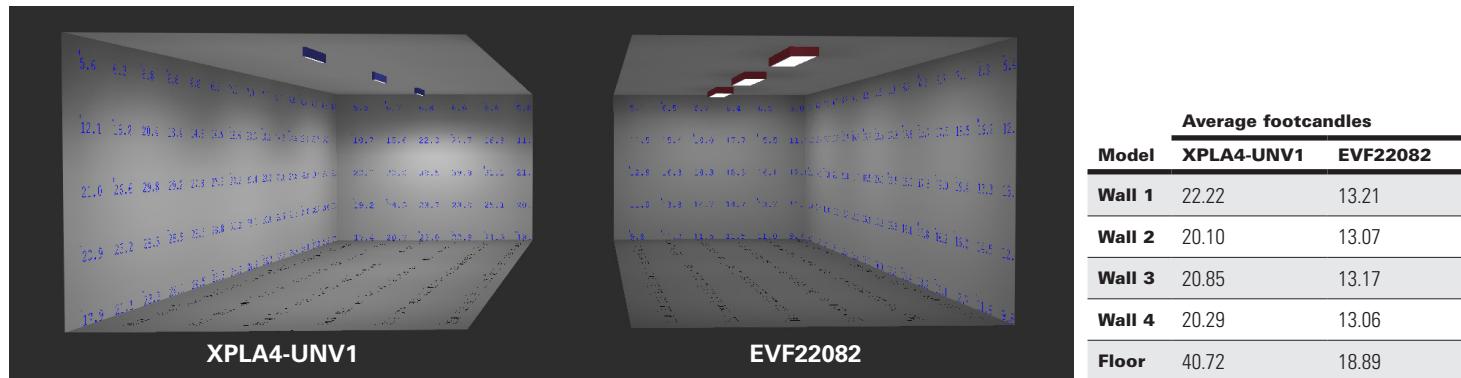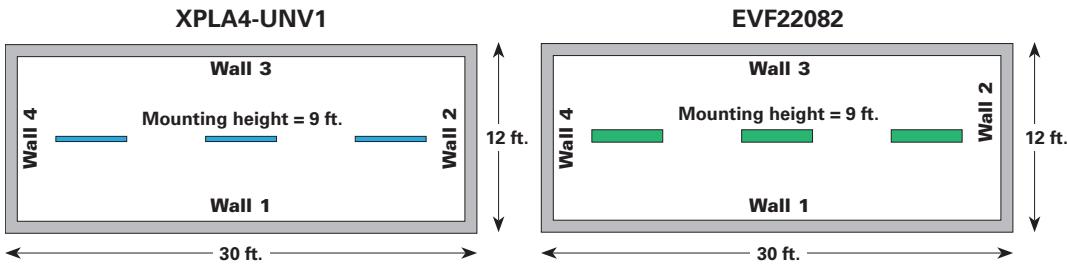
2 ft. XPLA LED with 120° optics vs. 4 ft. 2 lamp T8 EVF
58% lower energy consumption and 18% greater average illumination on floor

XPL2A-UNV1 | EVF22022

Model	Average footcandles	
	XPLA2-UNV1	EVF22022
Wall 1	11.23	12.20
Wall 2	10.36	12.05
Wall 3	10.61	12.16
Wall 4	10.04	12.06
Floor	20.62	17.45

XPLA2-UNV1

Wall 3
Wall 4 — Mounting height = 9 ft. — Wall 2
Wall 1
12 ft.
30 ft.

EVF22022

Wall 3
Wall 4 — Mounting height = 9 ft. — Wall 2
Wall 1
12 ft.
30 ft.
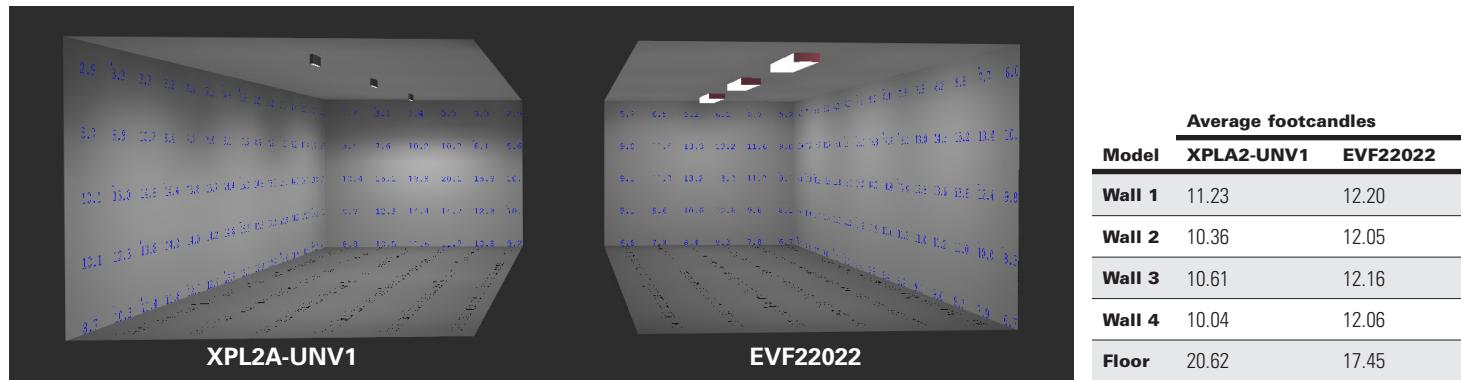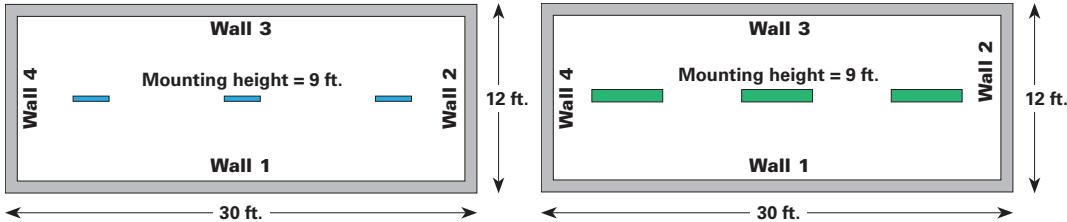
Mounting options

Ceiling/swivel mount
ZP1050MTK
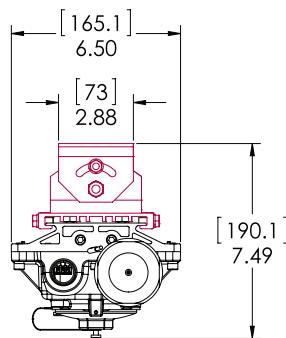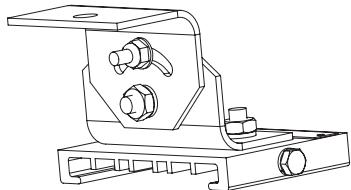
Length	XPLA2		XPLA4	
	in.	mm.	in.	mm.
A	27.0	685	44.6	1133
B	12.0-29.0	222-750	18.0-47.0	222-1194
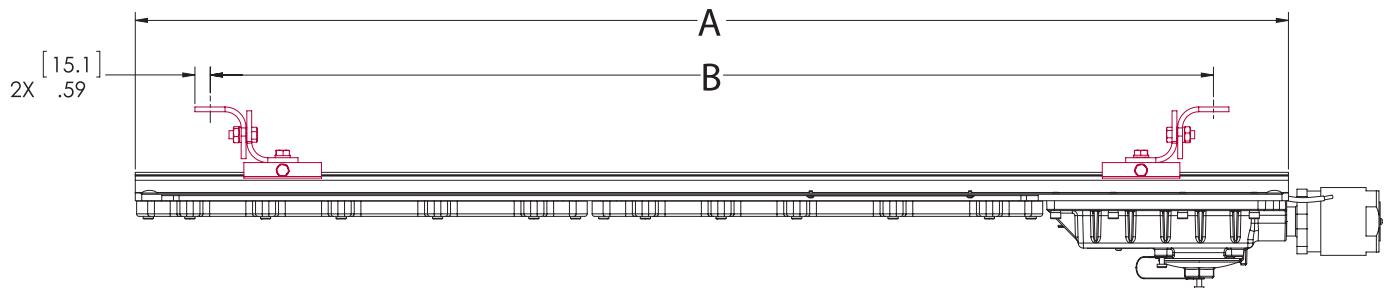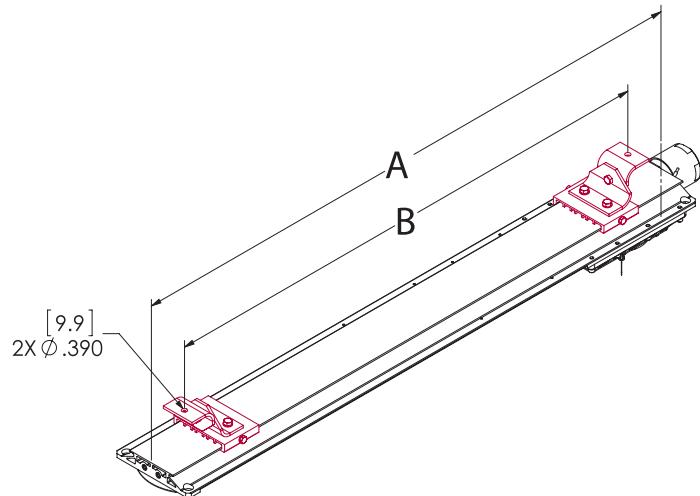
Mounting options

Flush ceiling
ZP1057MTK
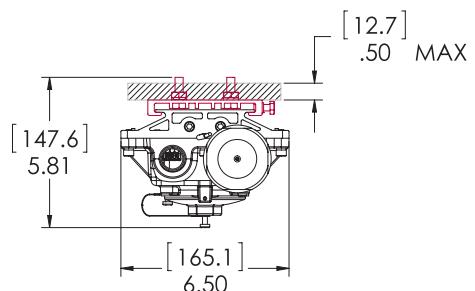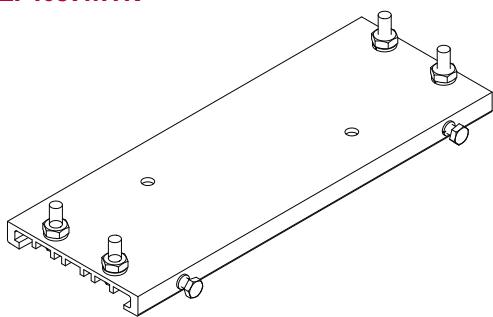
Length	XPLA2		XPLA4	
	in.	mm.	in.	mm.
A	27.0	685	44.6	1133
B	7.5	190	16.3	414

$\left[12.7\right]$ .50 MAX

$\left[147.6\right]$ 5.81

$\left[165.1\right]$ 6.50

A

$\left[283\right]$ 11.14

$\left[50.8\right]$ 2.00

B

4X 5/16-18 BOLT

$\left[112.3\right]$ 4.42

$\left[50.8\right]$ 2.00

$\left[304.8\right]$ 12.00

B

$\left[283\right]$ 11.14

A
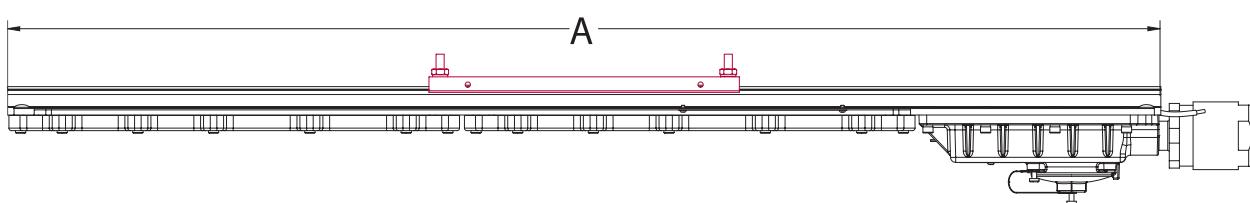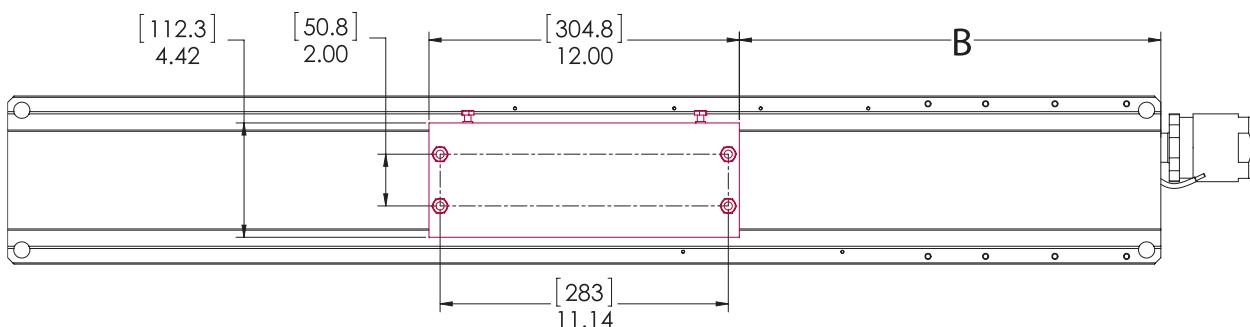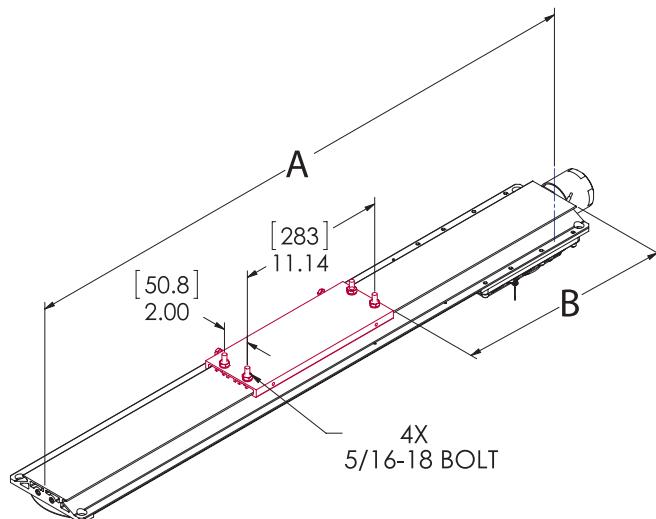
Mounting options

Pole mount
PM KIT 1.25/1.5/2.0
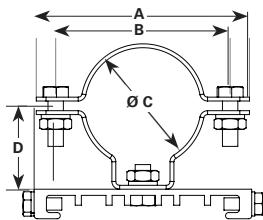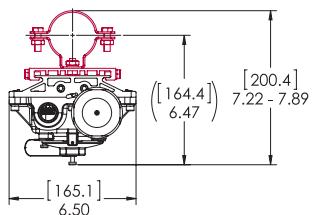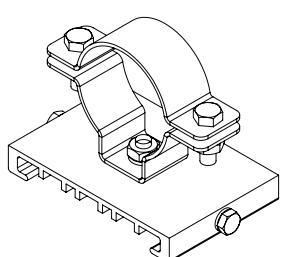
Configuration	ALL MEASUREMENTS IN INCHES			
	A	B	C	D
PM KIT 1.25	4.331	3.543	1.680	1.693
PM KIT 1.5	3.740	2.953	2.000	1.535
PM KIT 2.0	3.386	2.598	2.360	1.378
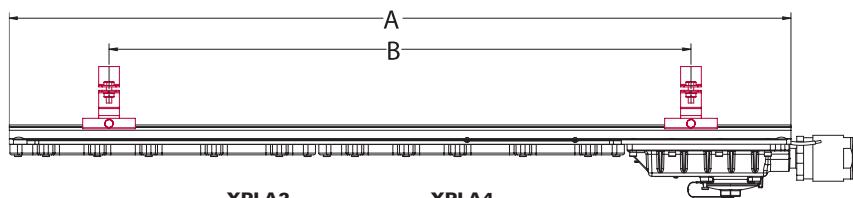
Length	XPLA2		XPLA4	
	in.	mm.	in.	mm.
A	27.0	685	44.6	1133
B	12.0-24.0	305-610	18.0-41.6	610-1056

For more information:

If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

Powering Business Worldwide

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