

A photograph of an industrial facility, likely a refinery or chemical plant. The image shows a complex network of large, silver-colored metal pipes and vessels. Red metal railings and walkways are visible, providing access to different levels of the structure. The background is a clear, light blue sky. The overall scene is one of a large-scale industrial operation.

ABB-EX SOLUTIONS™ LIGHTING

ABB-Ex Solutions™ linear and flood lighting products are ideally suited for use in a broad range of industrial applications.

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Linear and flood lighting products



046–049 XLN6 LED Series



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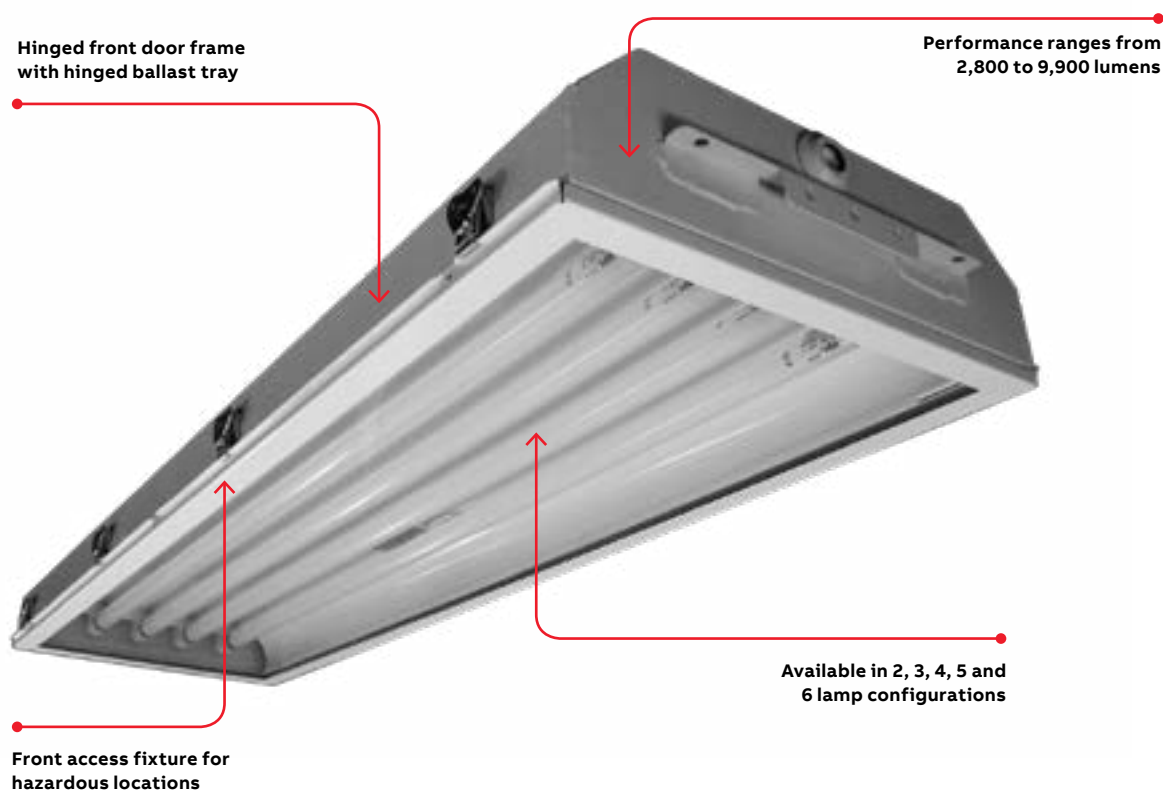


062–065 XFL8 LED Series

XLN6

LED Series

An energy-efficient alternative when sturdy vapor and dust proof lighting is required. A wide range of lumen output makes this your go-to fixture for a variety of applications.



CERTIFICATIONS



UL844
UL 1598 wet/damp
UL8750



CLASSIFICATION

CLASS I	
Division 2	Groups A, B, C, D
CLASS II	
Division 2	Groups F, G
CLASS III	

Contact your ABB sales representative to verify classification

XLN6 LED

Key features and benefits

Standard Features

- Front access fixture for hazardous locations
- Hinged front door frame with hinged ballast tray
- Spring-loaded lamp holders – standard
- Available in 2, 3, 4, 5 and 6 lamp configurations
- Multiple hub locations can meet most wiring needs

Construction

- Sturdy 18 gauge steel white powder-coated housing
- $\frac{3}{16}$ " tempered glass lens
- Zinc latches

Electrical

- Available standard ballast factor
- Wattage ranging from 25 W in the 2-lamp low ballast factor, to 87 W in 6-lamp standard ballast factor configuration (see wattage table below)
- Through-feed wiring
- Voltage of 120 to 277 and 347 available

Color rendering index

- Superior CRI (80+)

Options

- Adjustable surface-mount brackets
- Cable mount
- Wire guard
- Acrylic lens
- 3-wire whip

Accessories

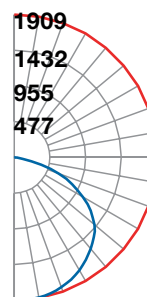
- Chain or cable mount kit
- Adjustable surface or vertical mounting bracket

Photometry ceiling mount

Reference data

Catalog number	XLN6S4K434PFT
Luminaire lumens	5,737 Lumens (4 Lamps)
Luminaire efficacy rating (LER)	97
Input watt	59.03
Spacing criterion (0-180)	1.26
Spacing criterion (90-270)	1.36
Spacing criterion (diagonal)	1.44

Candlepower curve



T-Ratings

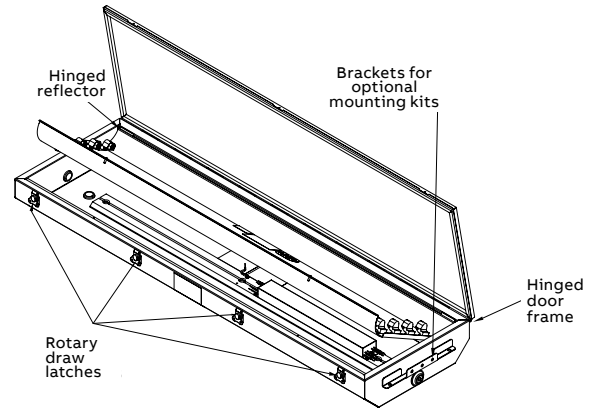
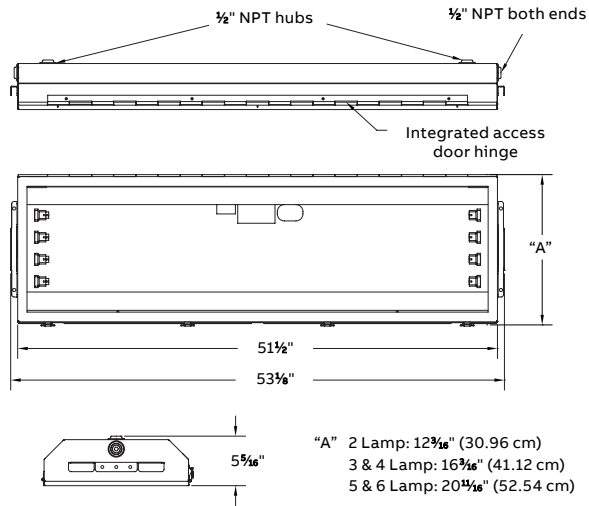
Model	Rated ambient (°C)	Class I	Class II	Class III
		Division 2 Groups A, B, C, D	Division 2 Groups F, G	
XLN6	40	T5 (100 °C)	T4A (120 °C)	T4A (120 °C)

Performance

Lamp qty.	Source (ballast factor)	Average system watts	Initial lumen output	Color temperature
2 Lamp	S - Standard	29	3200, 3300	4000K, 5000K
3 Lamp	S - Standard	43.5	4800, 4950	4000K, 5000K
4 Lamp	S - Standard	58	6400, 6600	4000K, 5000K
5 Lamp	S - Standard	72.5	8000, 8250	4000K, 5000K
6 Lamp	S - Standard	87	9600, 9900	4000K, 5000K

XLN6 LED

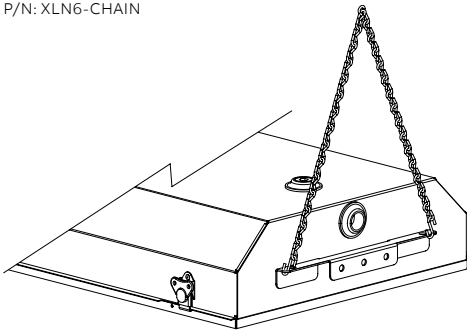
Dimensions



Mounting options

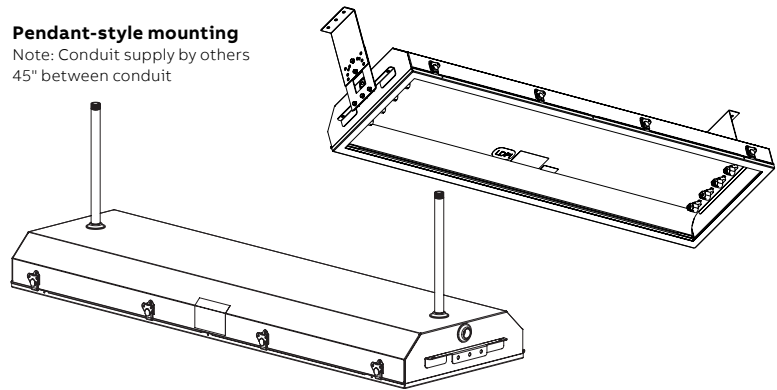
Chain kit

P/N: XLN6-CHAIN



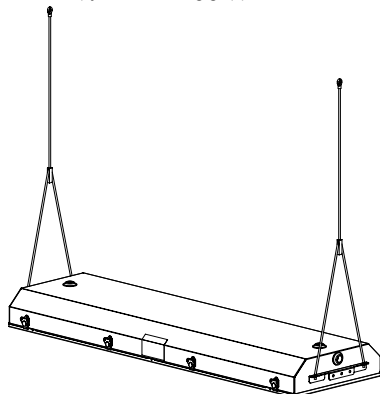
Pendant-style mounting

Note: Conduit supply by others
 45" between conduit



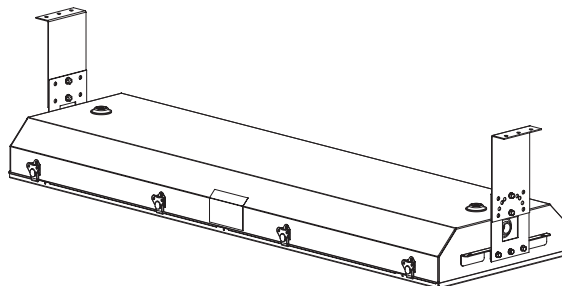
Cable hang kit

P/N: XLN6-CABLE (zinc coated), Qty 2 cables with toggle ends and qty 2 self-locking gripples



Adjustable surface-mounting bracket kit

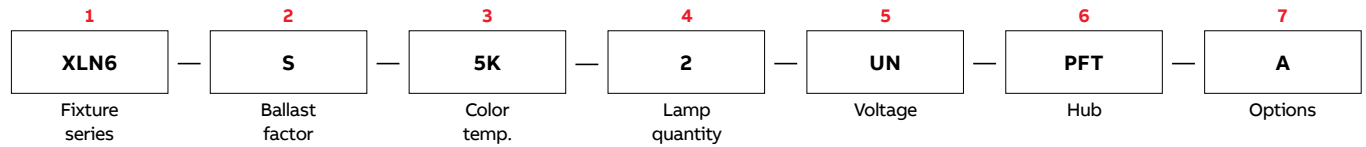
P/N: XLN6-SURFACE (galvanized), toggle ends and qty 2 self-locking gripples



XLN6 LED

Numbering system

Lighting fixture



Lighting fixture

Part	Part number	Description
1 Fixture series	XLN6	ABB-EX Solutions Linear Luminaire 6 Series
2 Ballast factor	S	Standard ballast factor
3 Color temperature	4K	4000K
	5K	5000K
4 Lamp quantity	2	2 lamp configuration, 4' length
	3	3 lamp configuration, 4' length
	4	4 lamp configuration, 4' length
	5	5 lamp configuration, 4' length
	6	6 lamp configuration, 4' length
5 Voltage	UN	Universal voltage 120 - 277, 50/60 Hz
	34	347 Volts
6 Hub	PFT	½" NPT hubs on top and side

Options

Part	Part number	Description
7 Options	KH	Adjustable mounting brackets for surface mount
	CX	Cable mount (with 5' cable)
	PW	3-Wire whip
	WG	Wire guard
	F	Fusing
	A	Acrylic lens
	P	Polycarbonate lens

Accessories

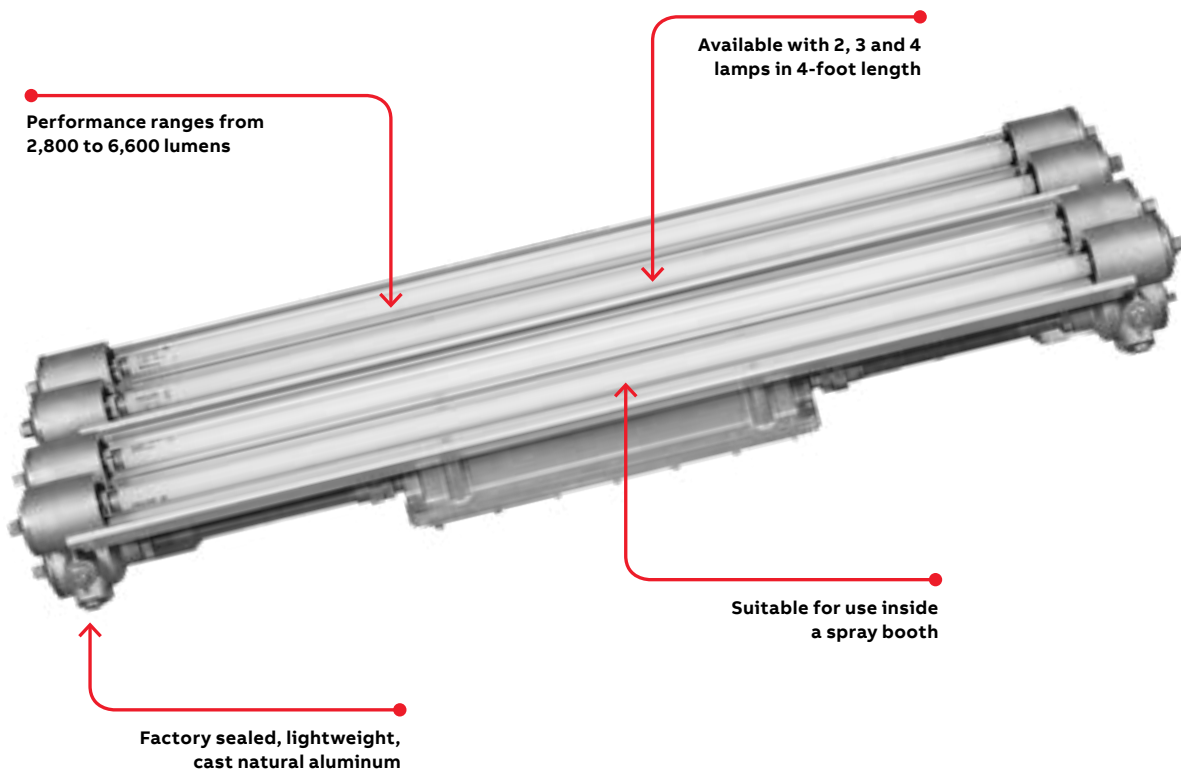
Part number	Description
XLN6-CHAIN	Chain hang kit
XLN6-CABLE	Cable hang kit
XLN6-SURFACE	Adjustable surface mounting bracket



XLN7

LED Series

Versatile, lightweight, explosion-proof lighting that is built to last. Can be mounted on walls, ceilings or inside a spray booth.



CERTIFICATIONS



UL844
UL 1598 wet/damp
UL8750



CLASSIFICATION

CLASS I	
Division 1	Groups C, D
Division 2	Groups A, B, C, D
Zone 1	Groups IIB, IIA
CLASS II	
Division 1	Group E, F, G
Division 2	Group E, F, G
CLASS III	
CLASS I and II Simultaneous Presence	

Contact your ABB sales representative to verify classification

XLN7 LED

Key features and benefits

Standard features

- Factory-sealed, lightweight cast natural aluminum
- 5 Different ½" NPT hubs entries at each end
- Center ballast placement for better balance and low profile
- Available with 2, 3 or 4 lamps in 4-foot length
- One-piece painted aluminum reflector
- Suitable for use inside a spray booth

Construction

- Cast natural aluminum
- 0.189" wall borosilicate glass tubes

Electrical

- Available with low or standard ballast factor
- Wattage ranging from 29 W in the 2-lamp standard configuration, to 58 W in the 4-lamp configuration (see wattage table below)
- Voltage of 120 to 277 (50/60Hz) and 347 available

Color rendering index

- Superior CRI (80+)

Options

- Wall and ceiling mount kit (4 lamps)
- Wire guard
- Polycarbonate shield
- 93% reflective premium specular reflector insert

Accessories

- Wall, ceiling and drop mount kit

Performance

Lamp qty.	Source (ballast factor)	Average system watts	Initial lumen output	Color temperature
2 Lamp	S - Standard	29	3200, 3300	4000K, 5000K
3 Lamp	S - Standard	43.5	4800, 4950	4000K, 5000K
4 Lamp	S - Standard	58	6400, 6600	4000K, 5000K

Photometry ceiling mount

Reference data		Candlepower curve
Catalog number	XLN7S5K24UN	856
	3,024 Lumens (2 lamps)	642
Luminaire lumens		428
Luminaire efficacy rating (LER)	105	214
Input watt	28.68	
Spacing criterion (0-180)	1.26	
Spacing criterion (90-270)	1.40	
Spacing criterion (diagonal)	1.48	

Reference data		Candlepower curve
Catalog number	XLN7S5K34UN	1365
	4,803 Lumens (3 lamps)	1024
Luminaire lumens		683
Luminaire efficacy rating (LER)	110	341
Input watt	43.72	
Spacing criterion (0-180)	1.26	
Spacing criterion (90-270)	1.40	
Spacing criterion (diagonal)	1.48	

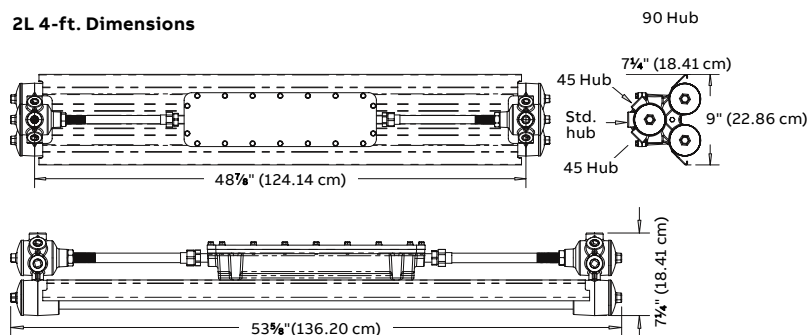
T-Ratings

Model	Rated ambient (°C)	Class I, Division 1 Groups C, D	Class I, Division 2 Groups A, B, C, D	Class II, Division 1 Groups E, F, G	Class II, Division 2 Groups E, F, G	Class I and II simultaneous presence
XLN7	40	T6 (85°C)	T6 (85°C)	T4 (135°C)	T4 (135°C)	T4 (135°C)

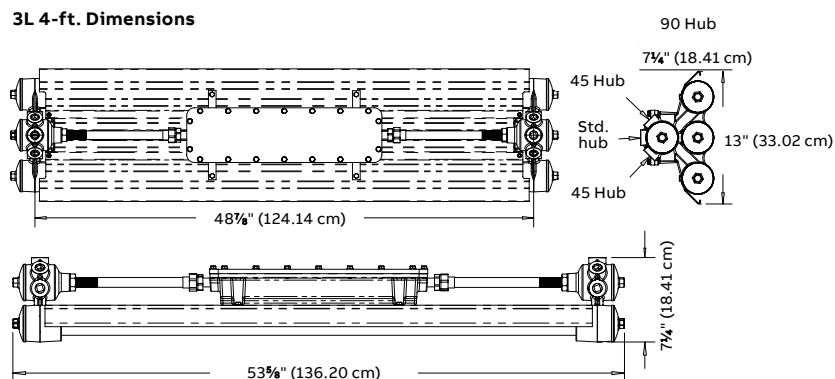
XLN7 LED

Dimensions

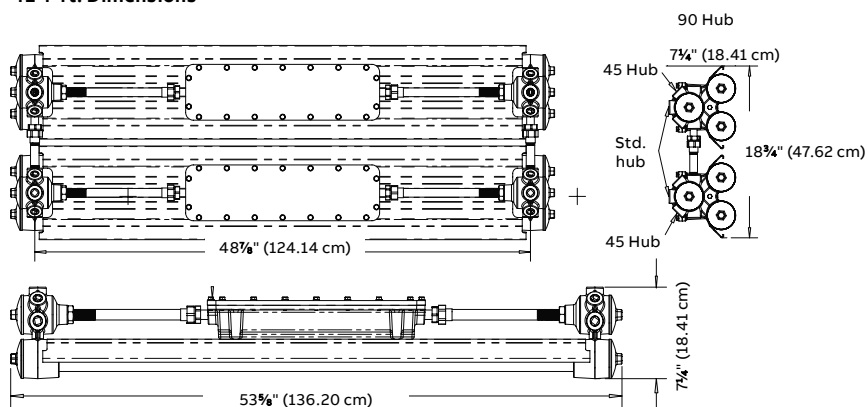
2L 4-ft. Dimensions



3L 4-ft. Dimensions



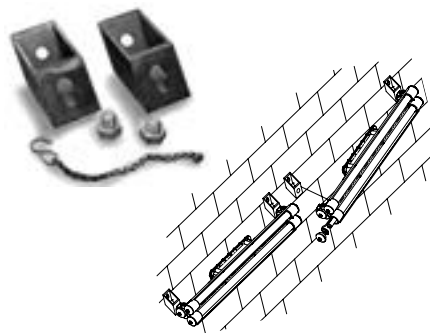
4L 4-ft. Dimensions



Mounting options

Wall/ceiling mount kit for 2 or 3 lamps

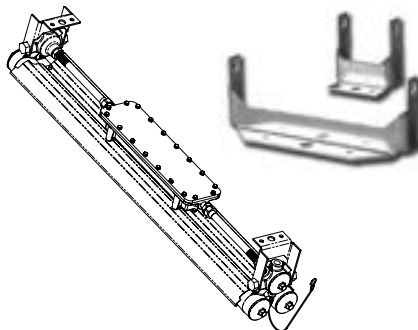
P/N: XLN7-4401



Wall/ceiling mount kit for 4 lamps

P/N: XLN7-4400

These are factory fitted. Please contact sales office for further details.

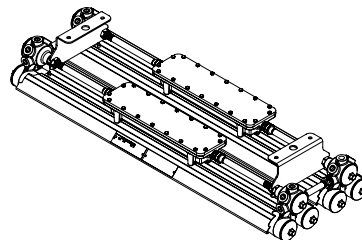


Drop-mount kit for 2 or 3 lamps

P/N: XLN7-4405

For 4 lamps

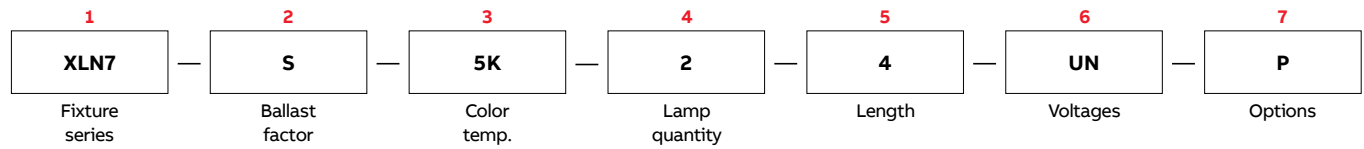
P/N: XLN7-4403



XLN7 LED

Numbering system

Lighting fixture



Lighting fixture

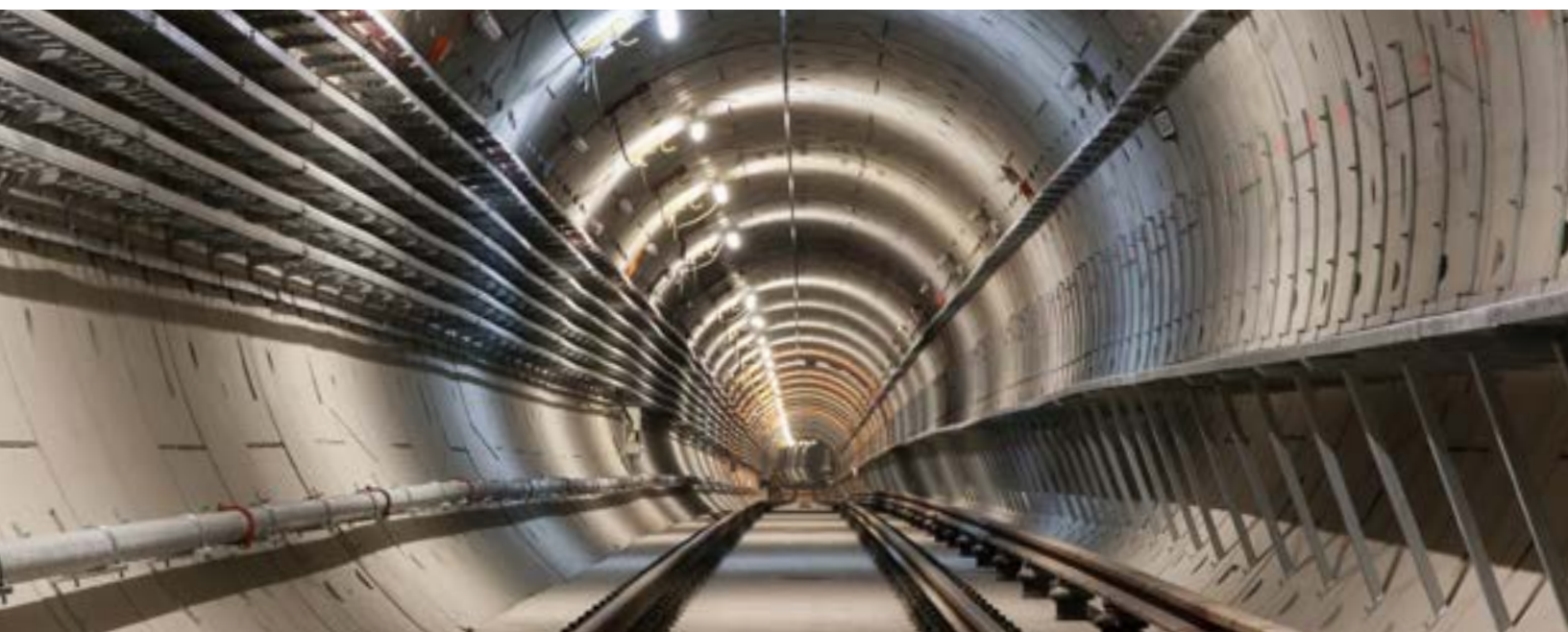
Part	Part number	Description
1 Fixture series	XLN7	ABB-EX Solutions Linear Luminaire 7 Series
2 Ballast factor	S	Standard ballast factor
3 Color temperature	4K	4000K
	5K	5000K
4 Lamp quantity	2	2 lamp configuration, 4' length
	3	3 lamp configuration, 4' length
	4	4 lamp configuration, 4' length
5 Length	4	4' length
6 Voltages	UN	Universal voltage 120–277 50/60 Hz
	34	347 Volt

Options

Part	Part number	Description
7 Options	P	Polycarbonate shield 2 lamps 4'
	WG	Stainless steel guard
	MK	Wall/ceiling mount kit (4 lamps)

Accessories (order separately)

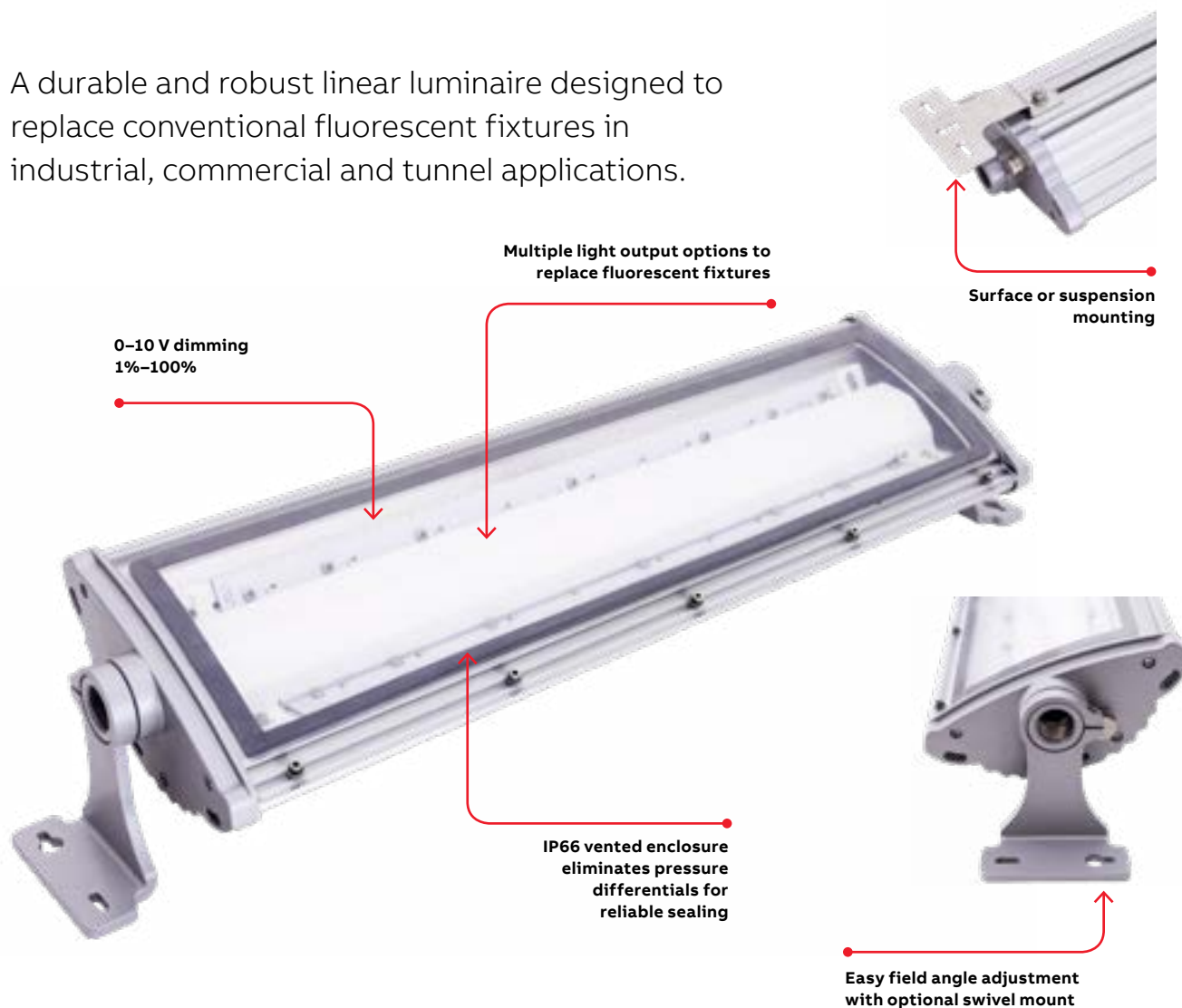
Part number	Description
XLN7-4401-EX	Wall and ceiling hanger kit 2 or 3 lamp
XLN7-4405-EX	Drop hanger kit 2 or 3 lamp
XLN7-4403-EX	Drop hanger kit 4 lamp
XLN7-4211-EX	Stainless steel guard 2 lamp 4'
XLN7-4557-EX	Stainless steel guard 3 lamp 4'
(2)XLN7-4211-EX	Stainless steel guard 4 lamp 4'
XLN7-4209-EX	Polycarbonate shield 2 lamp 4'
XLN7-4497-EX	Polycarbonate shield 3 lamp 4'
(2) XLN7-4209-EX	Polycarbonate shield 4 lamp 4'



XLN13

LED Series

A durable and robust linear luminaire designed to replace conventional fluorescent fixtures in industrial, commercial and tunnel applications.



CERTIFICATIONS



UL844
UL1598A
UL8750



CLASSIFICATION

CLASS I	
Division 2	Groups A, B, C, D
Zone 2	Group IIC
CLASS II	
Division 2	Groups F, G
Zone 22	Group IIB
CLASS III	

Contact your ABB sales representative
to verify classification

Applications

Tunnels
Interior fluorescent replacement
Loading docks

XLN13 LED

Key features and benefits

Features

- 100% field serviceable
- Minimum CRI of 70
- Up to 115 lumen/watt delivered
- -40 to 46 °C operating range
- IP66 vented enclosure

Finish

- Powder-coated end caps
- Polycarbonate lens resistant to impact with an integral hinge part of the fixture
- Ideal for dirty, wet and corrosive environments

Housing

- Copper-free high-pressure die-cast aluminum end caps and extruded aluminum body
- Suitable for wet locations (IP66)
- Lens and case are designed to withstand severe impact and vibration
- Vented enclosure eliminates pressure differentials and ensures reliable sealing

Output

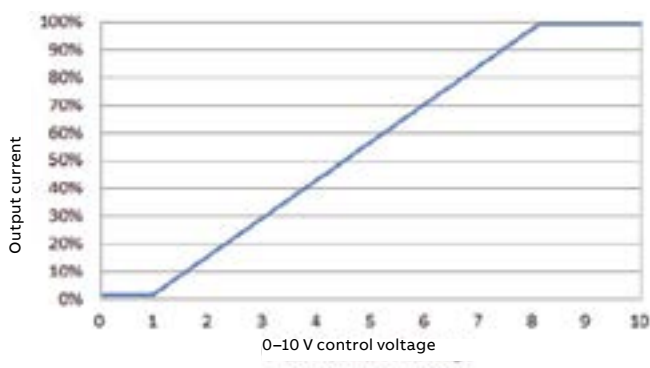
- 3,970 up to 10,000 lumens
- 0–10 V dimmable

Mounting

- Versatile brackets allow for several mounting styles:
 - Surface mount
 - Suspended mount
 - Angle adjustable mount

Dimming

Driver will source a maximum of 200 μ A for control needs. A controller must sink current from 0–10 V control leads.

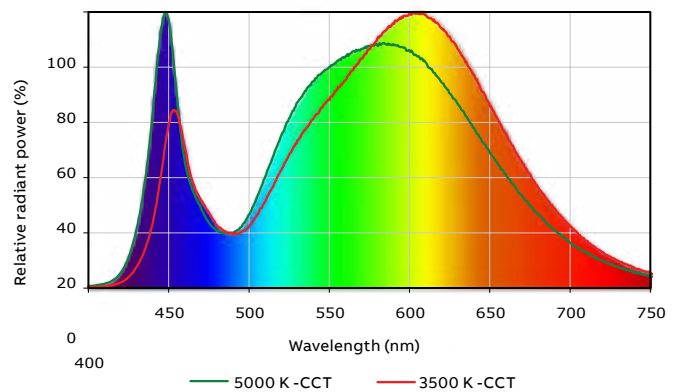


Applications

Tunnels
Interior fluorescent replacement
Loading docks

Color temperature

Available standard in 3500 K and 5000 K color temperatures, with additional color temperatures available from 2700 to 6500 K.



Nichia LEDs

- Proven reliability
- High efficiency
- High CRI (70+)

Power supplies

- Two input power ranges for flexibility
- Over-voltage, over-temperature and short circuit protection
- Built-in junction box with 3/4" NPT entry for electrical termination within sealed cavity
- Transient/surge protection: IEEE C62.41 4 kV/4 kV

XLN13 LED

Mounting options

Surface mount



Suspended mount



Two 6.5 mm x 10 mm slots on each end for suspension hardware (not provided).

Angle adjustable mount (optional)



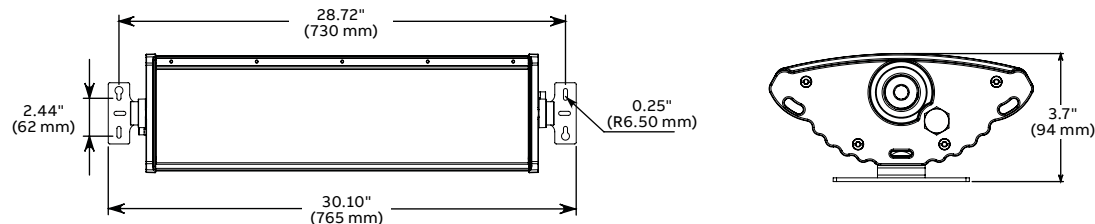
Easy field 360° angle adjustment with 3 mm hex key.

Surface/suspended mount (standard)

NL2 : 5.1 kg | 11.3 lbs NL4 : 10 kg | 22 lbs

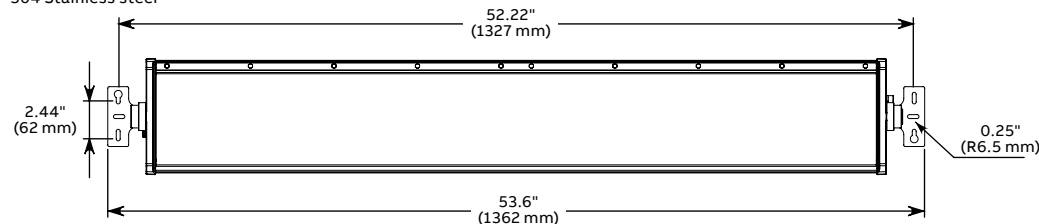
XLN132 – Surface mount 5.3 kg | 12 lbs (included standard)

304 Stainless steel



XLN134 – Surface mount 8.6 kg | 19 lbs (included standard)

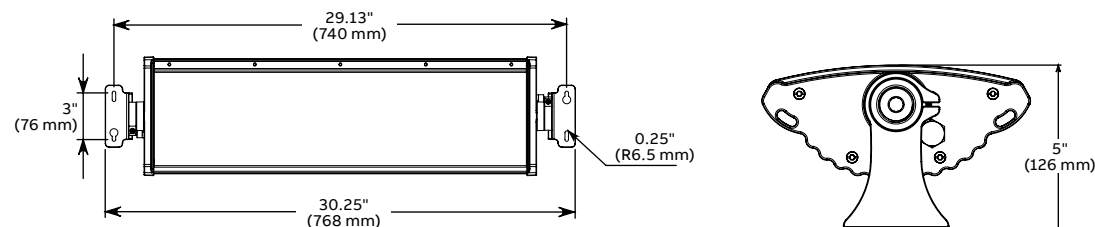
304 Stainless steel



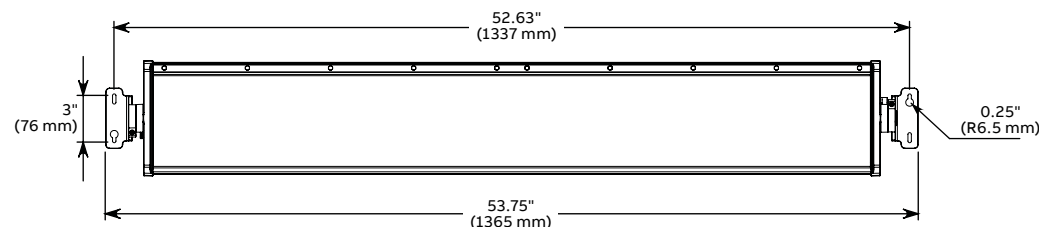
Adjustable mount (XLN13-AM - optional)

NL2 : 5.1 kg | 11.3 lbs NL4 : 10 kg | 22 lbs

XLN132 – Angle adjustable mount (XLN13-AM) 5.3 kg | 12 lbs (optional accessory)



XLN134 – Angle adjustable mount (XLN13-AM) 8.6 kg | 19 lbs (optional accessory)



XLN13 LED

Fixture comparison

Size	T12								T8				T5			
Length	4 foot		8 foot		4 foot				8 foot		4 foot					
Rating	Standard		Standard	High output	Standard			High output	Standard	High output	Standard			High output		
Lamp quantity	2-Lamp	4-Lamp	2-Lamp	2-Lamp	2-Lamp	4-Lamp	6-Lamp	2-Lamp	2-Lamp	2-Lamp	2-Lamp	4-Lamp	6-Lamp	2-Lamp	4-Lamp	
Est. power (W)	74	133	158	237	62	112	184	86	112	153	59	118	117	120	240	
Est. lumens LED cross	3,200	6,400	6,000	8,100	3,200	6,400	8,600	4,300	8,800	9,100	3,200	6,400	9,600	6,600	13,200	
Model	Lumens															
XLN132-S	3,970	X		X				X				X				
XLN132-H	5,143	X														
XLN132-X	7,965	X		X		X								X	X	
XLN134-S	8,697	X		X		X		X	X		X				X	
XLN134-H	10,470											X		X		

Electrical ratings

Model	Input voltage	Rated wattage (Watts)	Rated voltage (Volts)	Frequency (Hz)	Ambient temp. (°C)	Total lumens	T-codes (Class I Division 2)	T-codes (Class II Division 2)
XLN132S	AC	36	120-277	50/60	-40 to 55	3,970	T4A	T4
	HV	36	347-480	50/60	-40 to 54	3,970	T4A	T4
XLN132H	AC	52	120-277	50/60	-40 to 55	5,143	T4A	T4
	HV	52	347-480	50/60	-40 to 54	5,143	T4A	T4
XLN132X	AC	70	120-277	50/60	-40 to 52	7,965	T5	T4
	HV	82	347-480	50/60	-40 to 46	7,965	T5	T4A
XLN134S	AC	85	120-277	50/60	-40 to 55	8,697	T4A	T4A
	HV	90	347-480	50/60	-40 to 54	8,967	T4A	T4A
XLN134H	AC	105	120-277	50/60	-40 to 54	10,470	T4A	T4A
	HV	109	347-480	50/60	-40 to 52	10,470	T4A	T4A

Numbering system

Lighting fixture

1	2	3	4	5	6	7	8
XLN134	X	WC	GY	50	AC	HL	U
Series	Output	Optics	Finish	Color	Power	Location	Market

Options

Part number	Description
XLN13-AM-GY-EX	Adjustable mount (order separately)

Lighting fixture

Part	Part number	Description
1 Series	XLN132	2 foot
	XLN134	4 foot
2 Output	S	Standard
	H	High output
	X	Extra high output ¹
3 Optics	WC	Wide (no optics)
4 Finish	GY	Gray
5 Color	50	Cool white
	35	Warm white
6 Power	AC	120 to 277 VAC
	HV	347 to 480 VAC
7 Location	HL	Hazardous location
8 Market	Blank	Canadian market
	U	US market

¹Not available with XLN134

XLN12

LED Series

Lightweight, extremely durable and water-tight linear strip fixtures to withstand the most demanding hazardous location environments.



CERTIFICATIONS



IP66/67/68



UL844
UL1598A
UL8750

CLASSIFICATION

CLASS I	
Division 2	Groups A, B, C, D
Zone 2	Group IIC
CLASS II	
Division 2	Groups F, G
Zone 22	
CLASS III	

Contact your ABB sales representative to verify classification

XLN12 LED

Key features and benefits

Mounting

- Fixture has two mount options:
 - End brackets that allow for easy field adjustable 360° rotation
 - Carriage bolts for mounting to surfaces

Housing

- Extruded aluminum and copper-free aluminum casting
- MIL-SPEC Hard anodizing (body) and super-durable powdercoat (end caps) suitable for rugged outdoor environments
- Custom brackets available upon request
- Polycarbonate lens designed to withstand severe impact

CREE LEDs

- Proven reliability
- High efficiency
- Superior CRI (80+)
- Available in standard 5000 K and 3500 K with custom color and dual color options available for special order

Power supplies

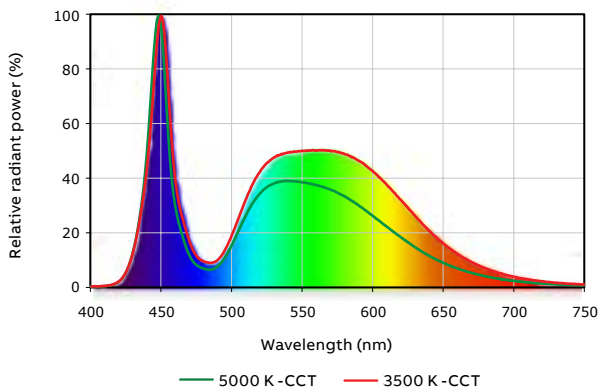
- Utilizes high performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation
- 12 V or 24 V DC input options can run directly off of vehicle or facility low voltage DC
- High-efficiency internal reflector maximizes output

Thermal management

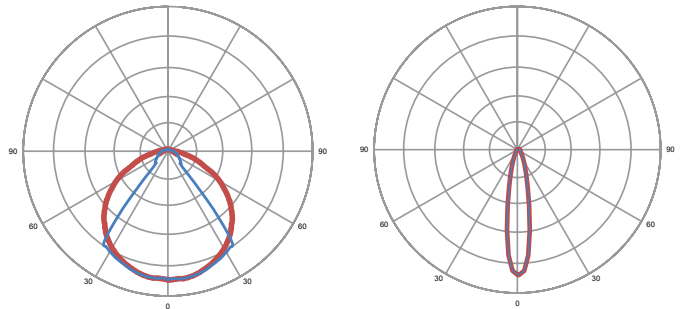
- Heat-sink designed for optimal heat dissipation

Color temperature

Available standard in 5000 K, with additional color temperatures available from 2700 to 6500 K.



Optic options



W – Wide 100°

Model	Lumen output (CW)
XLN12-1	586
XLN12-2	1172
XLN12-3	1758
XLN12-4	2289

N – Narrow 30° (DC only)

Model	Lumen output (CW)
XLN12-1	559
XLN12-2	1118
XLN12-3	1677
XLN12-4	2236

Reflector

- High efficiency internal reflector maximizes output

Electronics enclosure

- Direct transfer of heat from PCB to the casing to maximize lifetime and reliability
- Suitable for wet location
- Unique case design utilizes compression for sealing and eliminates fasteners on the front face

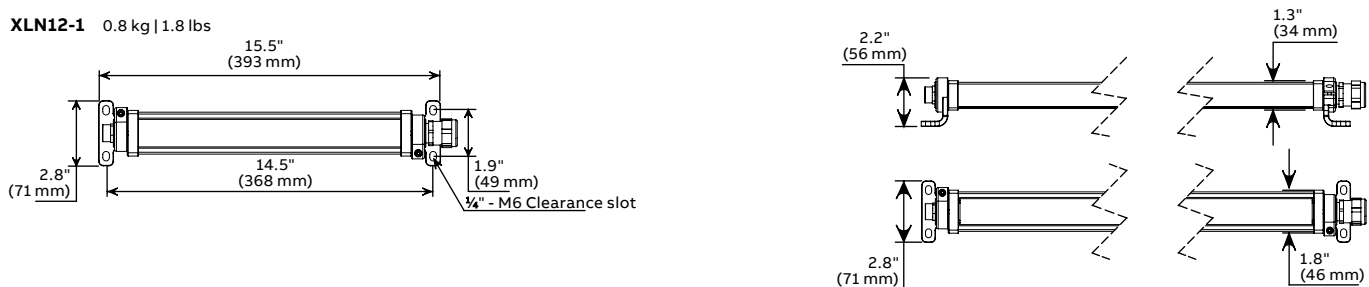
Power consumption

Model		XLN12-1	XLN12-2	XLN12-3	XLN12-4
Power	12 VDC	12W	21W	36W	48W
	24 VDC	11W	21W	32W	42W
	120 VAC	10W	20W	31W	41W
Current	12 VDC	0.75A	1.5A	2.3A	3.0A
	24 VDC	0.40A	0.75A	1.1A	1.5A
	120 VAC	0.09A	0.17A	0.23A	0.34A

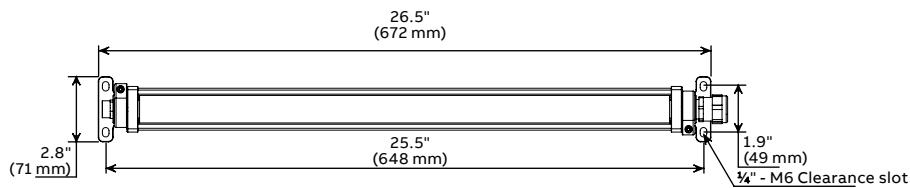
XLN12 LED

Dimensions

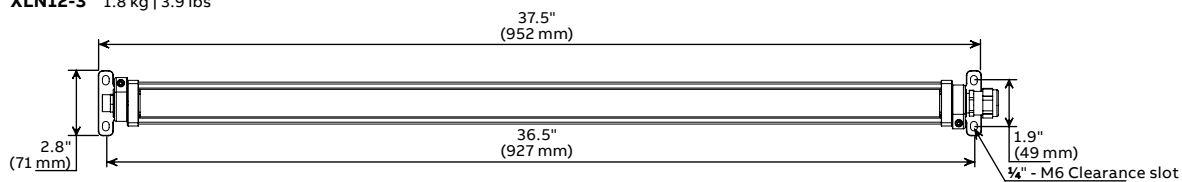
XLN12-1 0.8 kg | 1.8 lbs



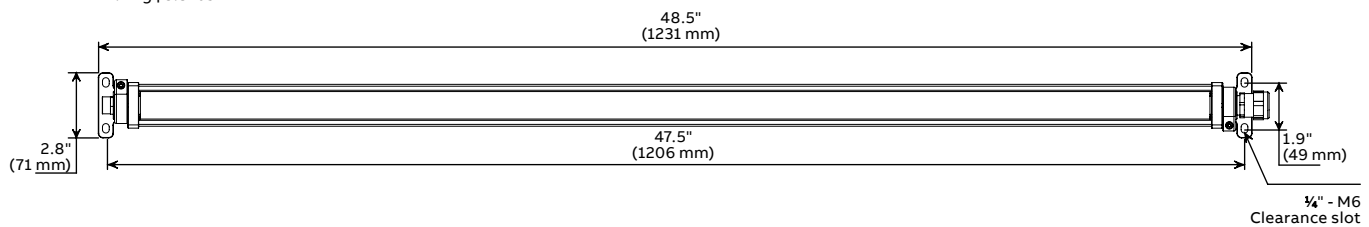
XLN12-2 1.2 kg | 2.6 lbs



XLN12-3 1.8 kg | 3.9 lbs



XLN12-4 2.4 kg | 5.3 lbs

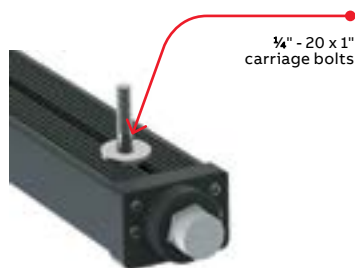


Mounting options

A - Adjustable mounting bracket



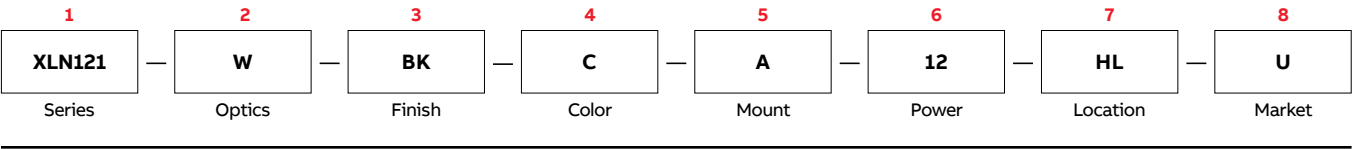
B - Carriage bolt/surface mount



XLN12 LED

Numbering system

Lighting fixture



Lighting fixture

Part	Part number	Description
1 Series	XLN121	1 Foot
	XLN122	2 Foot
	XLN123	3 Foot
	XLN124	4 Foot
2 Optics	N	Narrow 30° ¹
	W	Wide 100°
3 Finish	BK	Black
4 Color	C	Cool white
	W	Warm white
5 Mount	A	Adjustable
	B	Carriage bolt
6 Power	12	11–16 VDC
	24	21–28 VDC
	120	120 VAC
7 Location	HL	Hazardous location
8 Market	Blank	Canadian market
	U	US market

¹Available in DC only

