



# **Ex-Solutions**<sup>™</sup>

Hazardous location lighting products and accessories

You can rely on Ex-Solutions™ to safely provide light where you need it, even under the harshest indoor and outdoor conditions. If safety, labor reduction, quality and reliability are your priorities, consider Ex-Solutions™ lighting products to reduce maintenance and prevent downtime.

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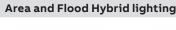
**Product matrix** 

General information

**Applications selector** 

## Area lighting





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XSL14 LED Series

**XSL3 LED Series** 16



**XSL11 LED Series** 





XFL15 LED Series

## **Linear lighting**











**XLN17 LED Series** 

XLN17-EM LED Series

XLN16 LED Series

XLN13 LED Series

XLN12 LED Series 58

## Accessories



Quick pole assembly

## **Emergency lighting**













**XELB LED Series** 

**XELC LED Series** 

**XELES LED Series** 

**XELR LED Series** 













**Hazardous location** battery unit

**Hazardous location** remote fixture 73

**Hazardous location** pictogram sign

**Hazardous location** combo pictogram

## Classifications



classifications



Hazardous locations Ignition temperatures and group classifications 79

## **Product matrix**



	Area lighting			Area/Flood lighting	
	XSL14 LED Series XSL3 LED Series p. 12 p. 16		XSL11 LED Series p. 26	XSL10 LED Series p. 32	
	A STRANGE OF				
Classification	$ \begin{array}{c c} \hline \begin{pmatrix} 1 \\ D1 \end{pmatrix} & \begin{pmatrix} 1 \\ D2 \end{pmatrix} & \begin{pmatrix} 1 \\ D1 \end{pmatrix} & \begin{pmatrix} 2 \\ D2 \end{pmatrix} & \begin{pmatrix} 2 \\ $	C1 C2 C2 C3 C3 C2 C2 C3		⟨C1⟩ ⟨C2⟩ ⟨C3⟩ ⟨Z2⟩ ⟨Z22⟩	
Optics - IESNA	TYPE 3 TYPE 5	TYPE 1 TYPE 3 TYPE 5	TYPE 1) TYPE 2) TYPE 5	TYPE 1) TYPE 2) TYPE 5	
Optics - NEMA	-	-	NEMA3X3 NEMA7X4 NEMA7X7 GENERAL	NEMA3X3 NEMA7X4 NEMA7X7 GENERAL	
IP/NEMA	IPGG (PG7)	NEMA 4X	(P66) (P67)	(P66) (P67)	
DLC	-	DLC	DIC	-	
Certification	UL) USTED E76966  USTED USTED	CUL US SP°	C (PL) US (PL) LISTED LISTED	CUDUS USTED	
Wattage	40-60W	37-138W	107-310W	26-57W	
Lumen	6,499-8,514lm	5,600-20,100lm	12,000-32,000lm	3,000-6,300lm	
Voltage	120-277VAC, 50/60Hz 347-480VAC, 50/60Hz	120-277VAC, 50/60Hz 347-480VAC, 50/60Hz	120-277VAC, 50/60Hz 347-480VAC, 50/60Hz	120-277VAC, 50/60Hz 347VAC, 60Hz	
Dimming	-	0-10V dimming	0-10V dimming	0-10V dimming	

PRODUCT MATRIX



	Flood lighting  Linear lighting					
	XFL15 LED Series p. 36	XLN17 LED Series p. 42	XLN17-EM LED Series p. 46	XLN16 LED Series p. 50	XLN13 LED Series p. 54	XLN12 LED Series p. 58
		W.			M.	
Classification		C1 C1 D2 Z2 Z2	C1 D1	C1 C2 C2 C3 C3 C2 C2 C2 C2 C2 C3	\( \begin{pmatrix} \cdot	⟨c1 ⟨c2 ⟨c3⟩ ⟨p2⟩ ⟨c3⟩ ⟨z2 ⟨z22⟩
Optics - IESNA	-	60°	60°	110°	GENERAL	WIDE NARROW CUT OFF
Optics - NEMA	25° 60° 120°	-	+	-	-	-
IP/NEMA	(P66)	(IP66)	(IP66)	(P66)	(P66)	(P65) (P67) (P69)
DLC	DIC	DLC	+	DLC	-	-
Certification	CUL US TED USTED	CULUSTED US ULSTED	C UL US	CUL US TED LISTED	CULUS US USTED	COLUSTED US COLUSTED
Wattage	80-150W	40-80W	80W (6W EMB)	40-80W	36-109W	12-41W
Lumen	10,400-19,500lm	4,800-9,600lm	10,800lm (812lm EMB)	5,480-10,960lm	4,000-10,000lm	580-2,300lm
Voltage	120-277VAC, 50/60Hz 347-480VAC, 50/60Hz	120-277VAC, 50/60Hz 347-480VAC, 50/60Hz	120-277VAC, 50/60Hz	120-277VAC, 50/60Hz 347-480VAC, 50/60Hz	120-277VAC, 50/60Hz 347-480VAC, 50/60Hz	120VAC, 50/60Hz 12V or 24VDC
Dimming	-	-	-	-	0-10V dimming	-

## Choosing the right partner

## For your hazardous location lighting project

When you're looking for hazardous location lighting, you need an experienced partner you can trust. Someone who will accompany you every step of the way and provide expert advice and exceptional service. The ABB sales team has been doing just that for close to a century.

Since 2001, the Ex-Solutions™ manufacturing facility has been ISO 9001, 1400 and 45001 compliant.

## Engineering expertise at your fingertips

Our product engineers are readily available to answer all your technical questions, and partner with you in selecting the best lighting solution to reach your goals.

#### High standards of quality control

Quality is built into every product at every step of the process, from design to final assembly. Each product is inspected and tested to ensure that it meets our strict quality standards, and then professionally packed so that your order will arrive intact at your installation site.

### **Quick Ship Program**

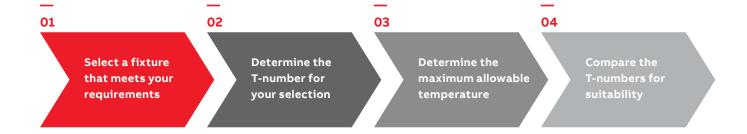
The Ex-Solutions™ Quick Ship Program guarantees that your order will be shipped within three to five working days of receipt. Delivery is made from our facilities in Dorval (Quebec, Canada). To take advantage of this service, choose from our selection of products included in the Quick Ship Program and indicate the reference #QUICKSHIP on the purchase order. No minimum or maximum quantity is required, and we deliver anywhere in Canada and the United States. See the Ex-Solutions™ Quick Ship Program brochure for more details or contact your local representative.



A sustainable development policy is in effect at the ABB production facility to reduce our carbon footprint and minimize the environmental impact of our operations. Through a series of initiatives, reductions in water usage, electricity and natural gas, packaging and pallets are being realized.

## **Environment selection method**

## The right fixture in the right application



#### 01

Select a fixture that meets your Class, Division and Group requirements.

For example: Class I, Division 2, Group D

## 02

## Determine the T-number for your selected fixture.

Be sure it is for the specific wattage, ballast housing, optical assembly and ambient temperature.
Use the published information in this catalog or contact your Ex-Solutions™ sales representative.

#### 03

Determine the maximum allowable temperature for the hazardous materials.

Class I Gas	Ignition temperature for the specific gas (from NFPA497M)
Class II Dust	Group E: 392°F (200°C)
	Group F: 392°F (200°C)
	Group G: 329°F (165°C)

#### 04

Compare T-number (from step 2) to maximum allowable temperature (from step 3).

- If T-number is cooler than the maximum allowable temperature, the selected fixture is suitable.
- If T-number is hotter than the maximum allowable temperature, the selected fixture is not suitable.

#### T-number table

Class I, II, Div. 1, 2 T-number	Max. temperature
T1	842°F (450°C)
T2	572°F (300°C)
T2A	536°F (280°C)
Т2В	500°F (260°C)
T2C	446°F (230°C)
T2D	419°F (215°C)
Т3	392°F (200°C)
T3A	356°F (180°C)
ТЗВ	329°F (165°C)
T3C	320°F (160°C)
T4	275°F (135°C)
T4A	248°F (120°C)
T5	212°F (100°C)
Т6	185°F (85°C)

## Hazardous locations applications

## We have a fixture for virtually any condition

Ex-Solutions<sup>™</sup> lighting fixtures are built to withstand most hazardous application.

#### **Examples of hazardous locations**

Chemical manufacturing and processing plants

Oil refineries

Oil drilling rigs

Offshore platforms

Pipeline pumping stations

Pulp and paper plants

Aluminum and copper smelting

Steel mills and foundries

Mining operations

Grain handling facilities

Flour, sugar and starch processing

Food processing plants

Paint and rubber manufacturing facilities

Power generation plants

Waste treatment facilities

Paint, chemical and plastic mixing/

storage areas

Bulk truck terminals

Solvent/cleaning areas





## 01

#### Hose-down and wet locations

- Certified for wet locations NEMA 4X, IP65, IP66, IP67/68 (indoor and outdoor); CSA and cULus Listed
- Superior gasketing system both tank and globe gasketing systems withstand hose-down pressures
- Uninterrupted globe thread assures positive seal
- Baked-on, dry epoxy coating not paint but 100% dry solids
- Globes, refractors and finish designed to withstand thermal shock during hose down

## 02

#### High ambient temperature areas

- All standard fixtures are tested and listed for at least 104°F (40°C) ambient – even under heavy dust blanket and no air flow
- Exclusive heat sink design results in a cool operating fixture, extended ballast/lamp life and lower maintenance costs
- Selection of high ambient temperature rated fixtures – contact your ABB representative for fixtures certified for 131°F (55°C) and 149°F (65°C) applications
- · Steam spray and thermal shock resistant



#### 03

#### Corrosion and abrasion

- Baked-on, dry epoxy coating not paint but 100% dry solids
- · Stainless steel external hardware
- · Sand-blast resistant finish
- Superior silicone gasketing system on both tank and globe (other gasketing systems available for special corrosive applications such as phosphates)
- Aluminum components contain less than 0.4% copper for maximum corrosion resistance
- Special HazCote® corrosion fighter finish available for extremely corrosive areas; consult your ABB representative for details

## **Ex-Solutions**™ fixture applications



#### 04

#### Ice and arctic conditions

- Gasketing system and finish allow for expansion and contraction through wide temperature variations
- High-strength mechanical mountings withstand ice loading
- Tempered glassware available for extra thermal shock safety margin



## 05

#### Vibration and vandalism

- Vibration tested by UL and CSA
- Vibration-resistant hardware throughout fixture
- Screw retainers on guard ensure retention even if screws are not completely tightened
- · Vibration-resistant globe thread and sealing system
- Optional refractors, high-strength tempered glass and Teflon®-coated globes for protection from vandalism



#### 06

#### **Dust blanket**

- · Tested and listed by UL and CSA
- Cone pendant mount available (45° sloped sides) for areas where dust or other residue buildup is a problem
- Exclusive heat sink design results in a cool operating fixture, extended ballast/lamp life and lower maintenance costs



## 07

#### Wind

- Wind-tunnel tested at McDonnell Douglas Corporation at air flow speeds in excess of 320 km/h (198 mph)
- Guard specially designed to secure reflector during high wind loading
- High-strength mechanical mountings withstand strong wind loads

Teflon is a registered trademark of The Chemours Company FC, LLC.

## **Product application**

A wide range of products and features are available to suit the needs of specific hazardous locations. Consider the requirements of each space to select the best lighting fixtures:

- Average footcandles
- Average mounting height
- Lumen output required for the space
- Optics
- Type and number of units

The following examples provide guidance for selecting the right fixtures according to different environments:







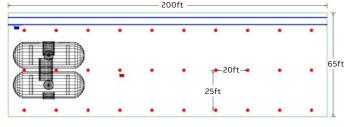


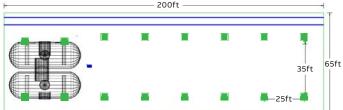
#### Machinery room

XSL3 LED				
Site	Room dimensions	200ft x 65ft		
	Mounting height	25'		
Photometric	AVG. Footcandle	30fc		
	Reflectances	40-50-20		
Product	Lumen output	20,000 lumens		
	Wattage	138W		
	Optics	TG – Thermal shock-resistant globe		
	Part number	XSL320UN0TG		
Quantity	Number of fixtures	30		

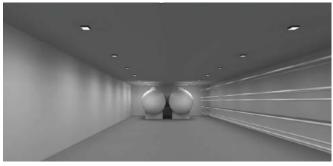
#### Machinery room

XSL11 LED					
Site	Room dimensions	200ft x 65ft			
	Mounting height	25'			
Photometric	AVG. Footcandle	30fc			
	Reflectances	40-50-20			
Product	Lumen output	32,000 lumens			
	Wattage	312W			
	Optics	CUT – Wide beam (no optics)			
	Part number	XSL1130CUTGY50AC			
Quantity	Number of fixtures	16			









## **Product application**

XSL3 LED



Inspection area

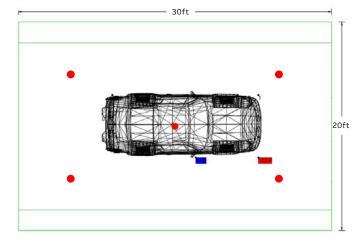
XSL3 LED				
Site	Room dimensions	30ft x 20ft		
	Mounting height	16'		
Photometric	AVG. Footcandle	108fc		
	Reflectances	80-80-20		
Product	Lumen output	20,000 lumens		
	Wattage	138W		
	Optics	TG – Thermal shock- resistant globe		
	Part number	XSL320UN0TG		
Quantity	Number of fixtures	5		

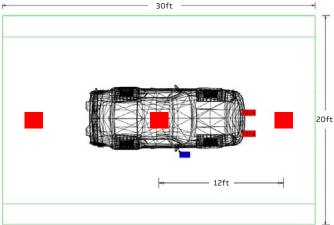




Inspection area

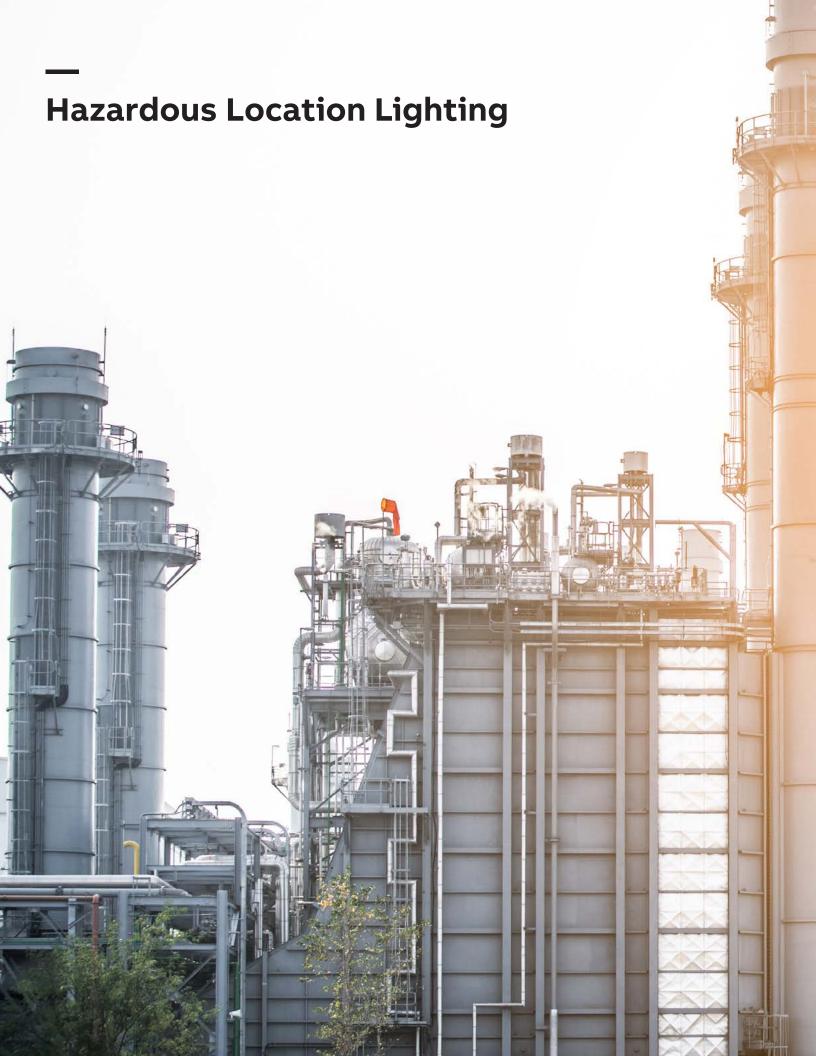
	XSL11 LED				
Site	Room dimensions	30ft x 20ft			
	Mounting height	16'			
Photometric	AVG. Footcandle	108fc			
	Reflectances	80-80-20			
Product	Lumen output	32,000 lumens			
	Wattage	312W			
	Optics	CUT – Wide beam (no optics)			
	Part number	XSL1130CUTGY50AC			
Quantity	Number of fixtures	3			











AREA LIGHTING

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## Area lighting products







XSL3 LED Series

## Area and Flood Hybrid lighting products



XSL11 LED Series



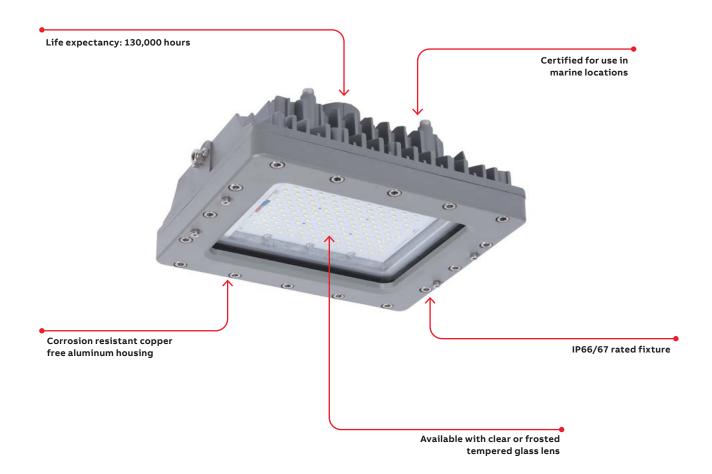
XSL10 LED Series

## Flood lighting product



XFL15 LED Series

Explosion-proof, shock and vibration resistant lighting fixture, designed for use in marine and wet locations, and a variety of hazardous areas.



## CERTIFICATION

CLASS I	
Division 1	Group B, C, D
Zone 1	
Division 2	Group A, B, C, D
Zone 2	
CLASS II	
Division 1	Group E, F, G
Zone 21	
Division 2	Group E, F, G
CLASS III	

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS









## APPLICATIONS

Power plants	
Paper mills	
Paint spray booth	
Wastewater treatment plants	
Chemical processing	
Petrochemical	

## Key features and information

## FEATURES

- Temperature range 40W and 50W models: -40°F to 149°F (-40°C to 65°C)
- Temperature range 60W model:
   -40°F to 147°F (-40°C to 64°C)
- Exposed hardware made of stainless steel

#### HOUSING

- Housing made of copper-free aluminum
- Anti-corrosion housing (tested for 1,000hrs)
- Tempered glass lens is impact and thermal shock resistant
- Lens tested to IK08
- High temperature silicone gasketing
- Available with multiple distribution patterns

## LED

- Efficacy: up to 150 Lm/W
- Lumen output: From 6,499 lumens to 8,514 lumens
- Nichia LED's
- CRI Ra>75
- Correlated Color Temperature (CCT): 5,000K (standard), 3,000K and 4,000K (optional)

## ELECTRICAL

- Operating voltage: 120VAC-277VAC: 40W and 60W
- Operating voltage: 347VAC-480VAC: 50W
- Frequency: 50/60Hz
- Power factor .95
- Driver efficiency 90%
- THD <20%</li>
- Surge protection standard at 4KV. Contact your sales representative if higher protection is required.

#### MOUNTING

- Pendant mount
- Optional yoke/pipe bracket for wall/ceiling or pole mount

## APPROVALS

- UL 844
- UL 8750 LED safety
- UL 1598 wet locations
- UL 1598A marine
- cUL approved to CSA 22.2 No. 137,
   CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- IP66/67
- IK08
- 5G (shock and vibration resistant)
- 1,000hrs salt spray

#### WARRANTY

• 5 year limited warranty

## T-code chart

Fixture	40 watt	50 watt	60 watt
C1D1	T6	Т6	Т6
C1D2	T4	T4A	T4
CIID2	Т6	Т6	T5

#### **Electrical specifications**

Specification		XSL14-40	XSL14-50	XSL14-60
Rated power		40W	50W	60W
Input voltage		AC120-277VAC	AC347-480VAC	AC120-277VAC
Input frequency	/	50/60Hz	50/60Hz	50/60Hz
In a set a second	AC120/277VAC	0.34/0.16A	N.A	0.48/0.215A
Input current	AC120/277VAC	N.A	0.15/0.1A	N.A
Power factor		≥0.	.95	

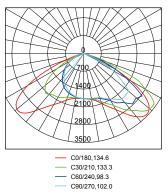
## Lighting output

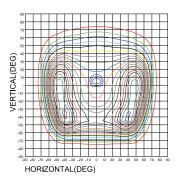
Fixture	40 watt	50 watt	60 watt
Lumen output	6,499	7,179	8,514
Lumen per watt	160	140	140

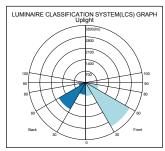


## **PHOTOMETRY**

## Type III

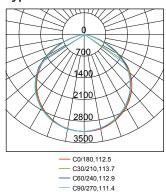


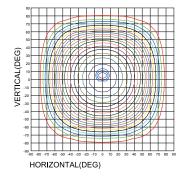


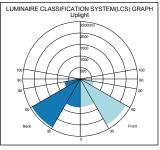


BUG (Back, Up, Glare) Rating: B2-U0-G1

## Type V







BUG (Back, Up, Glare) Rating: B3-U0-G1

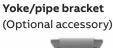
## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

## Pendant mount (Included standard)



(SUS 304) Stainless steel

(Optional accessory)





Pole mount Ø48/60

PB02-EX - Yoke/pipe bracket PC01-EX - Pipe clamp (1 pair) (Optional accessory)

pole Ø 1-7/8" (48 mm)



PC02-EX - Pipe clamp (1 pair) (Optional accessory)



PC02-EX = Pipe clamp (M8\*60mm) for pole Ø 2-3/8" (60 mm)

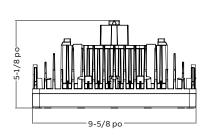
WG04-EX - Stainless steel wire guard (Optional accessory)

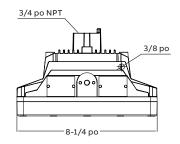




## DIMENSIONS

Dimensions are approximate and subject to change.





Model	Net weight C1D1 (Glass)	Product dimensions	
XSL14-40	4.9kg/10.8lbs		
XSL14-50	5.3kg/11.7lbs	245x210x129mr 9.7x8.3x5.1i	
XSL14-60	5.3kg/11.7lbs	5.770.575.1	

## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

Part	Part number	Description
1 Fixture series	XSL14	Ex-Solutions™ LED Class I Div 1
2 Wattage	4	40 watts
	5	50 watts
	6	60 watts
3 Voltage	1	120-277VAC (40W and 60W only)
	4	347-480VAC (50W only)
4 Color temp	К3	3,000K1
	K4	4,000K¹
	K5	5,000K
5 Diffuser type	R3	Type 3 Diffuser <sup>1</sup>
	R5	110° (no diffuser)
6 Hazloc	1	C1D1
7 Lens	TG	Clear glass
	FG	Frosted glass <sup>1</sup>
8 Mounting type	Р	NPT 3/4 pendant mount
	U	NPT 3/4 pendant mount + yoke bracket
9 Color of enclosure	G	Gray
10 Market	С	Canadian market
	Blank	U.S. market

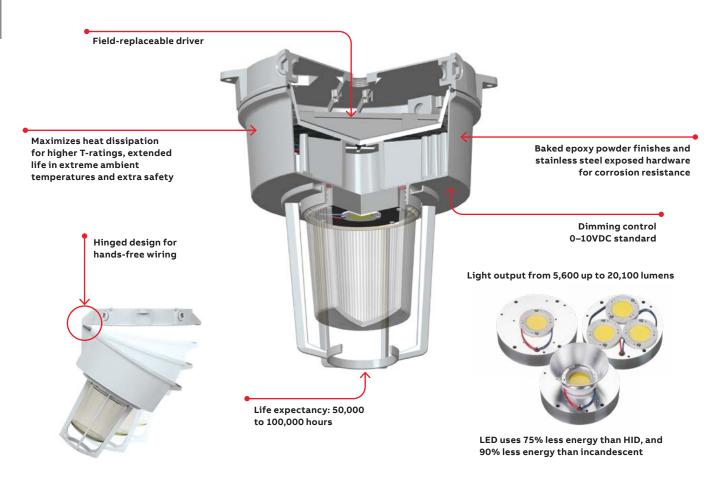
#### <sup>1</sup>Longer lead time, contact your sales representative for more details.

## **Accessories** (sold separately)

Part number	Description
PC01-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*48mm) for pole Ø 1-7/8" (48mm)
PC02-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*60mm) for pole Ø 2-3/8" (60mm)
PB02-EX	Yoke/pipe bracket (SUS 304) stainless steel
WG04-EX	Stainless steel wire guard

Note: For Canadian market, please add "CA" to the part no. (ex: PC01CA)

A safe, dependable and rugged luminaire with an exclusive design that maximizes heat dissipation, offers excellent performance and energy efficiency.



#### CERTIFICATION

CLASS I	
Division 2	Group A, B, C, D
Zone 2	Groups IIC, IIB, IIA
CLASS II	
Division 1	Group E, F, G <sup>1</sup>
Division 2	Group F, G <sup>2</sup>
CLASS III	

<sup>1</sup>Optics: CUT reflector not suitable for Class II, Div 1. Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

#### APPROVALS



Not all DL series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl







UL844 UL1598 UL8750

#### APPLICATIONS

High mast	
Parking lots	
Tunnels	
Swimming po	ols
High bay	
Coolers and fr	eezers
Inspection	
Quality contro	l areas
Packaging are	as
Hangars	
Storage facilit	ies
Oil and gas pr	ocessing
Agricultural	
Chemical/ind	ustrial facilities

AREA LIGHTING

## Key features and information

## FEATURES

- Operating temperature: -40° F to 131°F (-40°C to 55°C)
- Field-replaceable driver
- Higher T-ratings, extended life in extreme ambient temperatures and extra safety
- Versatile optics include internal reflector options with 35°, 45° and 65° beam angles

#### HOUSING

- Baked epoxy powder finishes and stainless steel exposed hardware for corrosion resistance
- Hinged design for hands-free wiring
- Borosilicate glass globes and polycarbonate CUT lens available
- Available with multiple distribution patterns
- Housing made of copper-free aluminum
- Gray color option and special black anti-corrosion coating available (Hazcote)
- Glass Teflon coating option available (TG globe only)

#### LED

- Efficacy: up to 151Lm/W
- Lumen output: from 5,600 lumens to 20,100 lumens
- Bridgelux LED's
- CRI Ra>70
- Correlated Color Temperature (CCT): 5,000K (standard), 3,000K, 3,500K, 4,000K (optional)

## ELECTRICAL

- 0-10VAC dimming
- Operating voltage: universal 120-277VAC (voltage range includes 208VAC, 220VAC, 240VAC, etc.), 347-480VAC (50/60Hz)
- Power factor 0.9
- Driver efficiency 90%
- THD <20%

## MOUNTING

- Cone-top pendant mount
- Ceiling and pendant mount
- Wall mount
- Pendant mount
- 25° angle stanchion mount
- 90° stanchion mount
- HazVertor™ ring

## APPROVALS

- UL844
- CSA C22.2 No. 137
- UL 1598 wet locations
- UL 8750 LED safety
- cUL approved to CSA 22.2 No. 137,
   CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- DLC: not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualification.
- NEMA 4X

## WARRANTY

5 year limited warranty

## T-code chart

		Class I	_	Simultaneous
		Division 2	Class II	Class I
	Class I Zone 2	Groups	Groups	Division 2
	Groups IIC, IIB, IIA	A, B, C, D	E, F, G	and Class II
Glass globe XSL30	5, XSL307, XSL310			
Ambient temp. -40° to 104°F				
(-40° to 40°C)	T5	T5	Т6	T5
Ambient temp. -40° to 131°F				
(-40° to 55°C)	T4	T4A	Т6	T4A
Glass globe XSL30	5, XSL307, XSL310 wit	h internal refl	ector I3, I4, I6	5
Ambient temp.				
-40° to 104°F (-40° to 40°C)	T4	T4A	Т6	T4A
		144	10	146
Glass globe XSL31	5, XSL317, XSL320			
Ambient temp.				
-40° to 104°F				
(-40° to 40°C)	T4	T4A	T4A	T4A
Optic type CUT XS	L305, XSL307, XSL310			
Ambient temp.				
-40° to 104°F (-40° to 40°C)	T5	T5	T5 <sup>1</sup>	T51
· · · · · · · · · · · · · · · · · · ·	13	15	13	15
Ambient temp. -40° to 131°F				
(-40 to 55°C)	T4	T4A	T4A¹	T4A¹
Optic type CUT XS	L315, XSL317, XSL320			
Ambient temp.				
-40° to 104°F				
(-40° to 40°C)	T4	T4A	T4A¹	T4A¹

 $^{1}$ Cut reflector: Class II, Division 2, Groups F, G only

## Surge suppression rating

ANSI C82.77-5 CAT C low compliant – no external surge suppression device required.

ANSI surge type	Differential mode (L-N)	Common mode (L-G, N-G, L and N-G)
1.2/50 $\mu$ s combination wave (w/t 2 $\Omega$ )	6 kV	6 kV

## ELECTRICAL SPECIFICATIONS

## Design Lights Consortium (DLC): summary of test results

	Electrical, 120-27		
Model	Power (W)	Power factor	тнр
XSL310	71.9	0.97	10.1%
XSL315	103.0	0.97	11.0%
XSL320	137	0.97	12.3%

Photometry, 120-277VAC		
TG globe		
Lumens	Lm/W	
10,706	147.8	
16,063	155	
20,468	147.2	

Photometry, 120-277V		
	CUT reflector	
Lumens	Lm/W	
9,814	135.4	
14,564	140.7	
18,782	135.3	

	Electrical, 347V		
Model	Power (W)	Power factor	THD
XSL310	70.2	0.99	7.1%
XSL315	104.9	0.99	7.6%
XSL320	141.2	0.99	7.8%

Photo	metry, 347VAC
	TG globe
Lumens	Lm/W
10,582	147.7
-	_
21,284	149.6

Photometry, 347VAC	
	CUT reflector
Lumens	Lm/W
9,659	134.9
-	-
19,065	134.1

Summary of test results: Certified for optics TG globe and CUT reflector, and for AC input 120VAC, 277VAC and 347VAC an



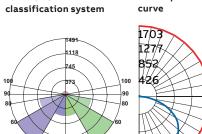
## PHOTOMETRY

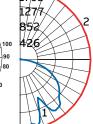
Luminaire

Standard globe	
Catalog number	XSL305UN0-TGC2
Luminaire lumens	5,764
Luminaire efficacy rating (LER)	156
Input watts	37.01
Spacing criterion	0.88
Spacing criterion (90–270)	0.88
Spacing criterion (diagonal)	1.52

Standard globe	
Catalog number	XSL310UN0-TGC2
Luminaire lumens	10,739
Luminaire efficacy rating (LER)	148
Input watts	72.44
Spacing criterion	0.82
Spacing criterion (90–270)	0.82
Spacing criterion (diagonal)	1.46

Standard globe	
Catalog number	XSL315UN0-TGC2
Luminaire lumens	16,110
Luminaire efficacy rating (LER)	155
Input watts	103.66
Spacing criterion	1.32
Spacing criterion (90–270)	1.32
Spacing criterion (diagonal)	1.58

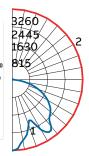




Candlepower

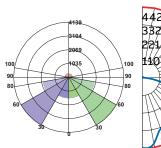
classification system curve 3260 2445 16/30

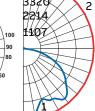
Luminaire



Candlepower

Candlepower Luminaire classification system curve





BUG rating: B2-U3-G1

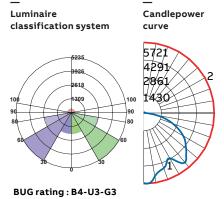
BUG	rating	: B3-	U3-G2

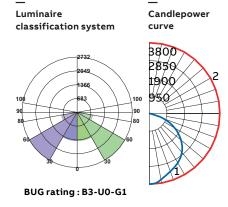
BUG rating: B3-U3-G3

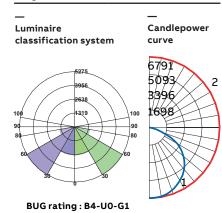
Catalog number	XSL320UN0-TGC2
Luminaire lumens	20,530
Luminaire efficacy rating (LER)	148
Input watts	139.02
Spacing criterion	1.10
Spacing criterion (90–270)	1.10
Spacing criterion (diagonal)	1.56

CUT reflector	
Catalog number	XSL310UN0-CUTC2
Luminaire lumens	9,846
Luminaire efficacy rating (LER)	136
Input watts	72.47
Spacing criterion	1.22
Spacing criterion (90–270)	1.22
Spacing criterion (diagonal)	1.38

CUT reflector	
Catalog number	XSL320UN0-CUTC2
Luminaire lumens	18,841
Luminaire efficacy rating (LER)	136
Input watts	138.8
Spacing criterion	1.30
Spacing criterion (90–270)	1.30
Spacing criterion (diagonal)	1.42







## PHOTOMETRY

Luminaire

R5 globe	
Catalog number	XSL310-R5
Luminaire lumens	9,763
Luminaire efficacy rating (LER)	132
Input watts	75
Spacing criterion	1.42
Spacing criterion (90–270)	1.42
Spacing criterion (diagonal)	1.54

Candlepower

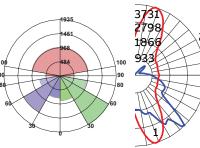
R3 globe	
Catalog number	XSL310-R3
Luminaire lumens	9,851
Luminaire efficacy rating (LER)	133
Input watts	75
Spacing criterion	1.40
Spacing criterion (90–270)	1.82
Spacing criterion (diagonal)	1.46

classification system curve 2033 1525 508

BUG rating: B2-U4-G3

Luminaire
classification system

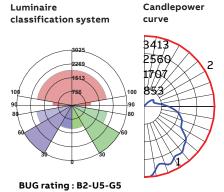
Candlepower curve



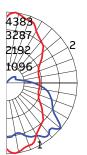
BUG rating: B2-U4-G3

R5 globe	
Catalog number	XSL320-R5
Luminaire lumens	18,767
Luminaire efficacy rating (LER)	137
Input watts	137
Spacing criterion	1.44
Spacing criterion (90–270)	1.44
Spacing criterion (diagonal)	1.62

R3 globe	
Catalog number	XSL320-R3
Luminaire lumens	18,764
Luminaire efficacy rating (LER)	137
Input watts	137
Spacing criterion	1.40
Spacing criterion (90–270)	1.90
Spacing criterion (diagonal)	1.58



classification system



Candlepower

curve

BUG rating: B3-U5-G5

## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

## Fixture assembly guide



**Mounting options** 





LED driver tank





Globe or reflector



Heat-resistant globe Refractor globe R1



Refractor globe R3



Refractor globe R5



**Guard** (N/A for CUT)



## **Mounting accessories**

HV5-EX\*

Part number	Description	Conduit hub size
VA2-EX	Company manufactural	3/4"
VA3-EX	Cone-top pendant <sup>1</sup>	1"
VC2-EX		3/4"
VC3-EX	Ceiling & pendant mount <sup>1</sup>	1"
VB2-VIB-EX	No. II	3/4"
VB3-VIB-EX	Wall mount <sup>1</sup>	1"
VP2-EX	3/4" rigid pendant¹	3/4"
VS4-VIB-EX	250 1 . 1: 1	1-1/4"
VS5-VIB-EX	25° angle stanchion¹ ——	1-1/2"
VL4-VIB-EX		1-1/4"
VL5-VIB-EX	Straightstanchion <sup>1</sup>	1-1/2"
	HazVertor™ adaptor ring Crouse-Hir	nds ceiling, pendant² &
HV3-EX*	Straight stanchion top hats <sup>1,</sup>	
HV3-EX*	Straigh HazVertor™ adaptor ring sta	· ·

<sup>\*</sup>HV3-EX, HV4-EX and HV5-EX HazVertors  $^{\text{TM}}$  are CSA/CSAus certified

 $\textbf{Note: \bullet} \ \text{For the Canadian market, please add "-C" to the part number after the EX}$ (ex.: VC3-EX-C).

HazVertor™ adaptor ring wall mount<sup>1,3</sup>

#### Globes or refractors

Part number	Description
VGT15-EX	Heat-resistant prismatic glass globe <sup>4</sup>
VGL15R1-EX	IES Type I refractor globe⁴
VGL15R3-EX	IES Type III refractor globe⁴
VGL15R5-EX	IES Type V refractor globe⁴
CUT-EX	Dark sky cut-off reflector with polycarbonate flat lens <sup>4</sup>

Note: For Canadian market, please add "C" to the part no. (ex: VGT15C).

## Guards

Part number	Description
VGU22-EX	Cast guard

- <sup>1</sup> For stainless steel inserts, please add "SI" to part no. (ex:VA2SI-EX)
- <sup>2</sup> Not compatible with HPM2 crouse-hinds top hats
- <sup>3</sup> Some installations may not be compatible
- <sup>4</sup> Must be replaced by the same refractor

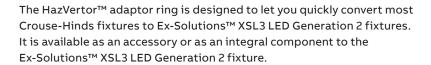
Note: • For Canadian market, please add "CA" to the part no. (ex: VGU22-EXCA).

• For gray finish, please add "G" to the part number. For US, ex: VGU22G. For Canada, ex: VGU22G-EXCA

<sup>•</sup> For gray finish, please add "G" to the part number before -EX (ex: VA2G-EX).

## HazVertor™ compatiblity







Mounting	Crouse-Hinds model	Crouse-Hinds part number	HazVertor™ model
Pendant	APM2 3/4 in.	APM2	HV3-EX
Cailing	CM2 3/4 in.	CM2	HV3-EX
Ceiling	CM3 1 in.	CM3	HV3-EX
	TWM2 3/4 in.	TWM2	HV5-EX
Wall	TWM3 1 in.	TWM3	HV5-EX
Charachite a	JM5 1-1/2 in.	JM5	HV4-EX
Stanchion	PM5 1-1/2 in.	PM5	HV3-EX
Quad mount	QM25 3/4 in.	QM25	HV3-EX



01 HazVertor<sup>™</sup> adaptor ring, model HV3-EX

02 HazVertor™ adaptor ring, angle machining, model HV4-EX

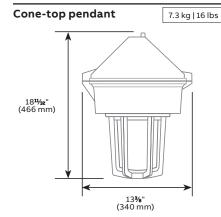
03 HazVertor™ adaptor ring, wall mount machining, model HV5-EX

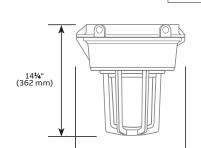




DIMENSIONS

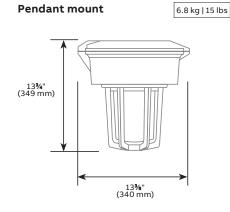
Dimensions are approximate and subject to change.

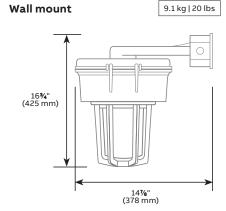




13**%**" (340 mm)

Ceiling and pendant mount 7.3 kg | 16 lbs



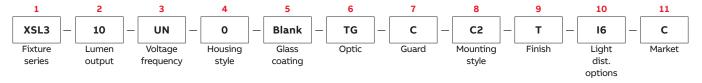






## NUMBERING SYSTEM

**Unipak**™ = LED driver tank + optics and mountings + options (if necessary)



#### LED driver tank

Part	Part number	Description
1 Fixture series	XSL3	Ex-Solutions™ XSL3
2 Lumen output	05	5,600 lumens, 37 W
-	07	7,500 lumens, 48 W
	10	10,500 lumens, 74 W
	15	15,800 lumens, 103 W
-	17	17,300 lumens, 115 W
-	20	20,100 lumens, 138 W
3 Voltage / Frequency	UN	Universal 120–277VAC 50/60 Hz (voltage range includes 208VAC, 220VAC, 240VAC, etc.)
_	UN2	Universal 347-480VAC 50/60 Hz
4 LED driver	0	Standard housing
housing style	s	Standard housing with stainless-steel insert

## **Optics**

Part	Part number	Description
5 Glass coating	Blank	No teflon coating
	S	Teflon coating (TG Globe only)
6 Optic	TG	Thermal shock-resistant glass globe
	R1	Type I glass refractor globe
	R3	Type III glass refractor globe
	R5	Type V glass refractor globe
	CUT	Dark sky cut-off polycarbonate flat lens¹
7 Guard option	Blank	No guard
	С	Cast aluminum guard <sup>2</sup>

 $<sup>^1</sup>$  CUT optics: 3,000 K < CCT for Dark sky. Cannot be used with stanchion mount. Not suitable for Class II, Division 1

## Mounting

	Part	
Part	number	Description
8 Mounting style	A2	3⁄4" Cone-top pendant
	А3	1" Cone-top pendant
	В2	3⁄4" Wall mount
	В3	1" Wall mount
	C2	34" Ceiling mount / pendant
	С3	1" Ceiling mount / pendant
	HV3	HazVertor™ adaptor ring Crouse-Hinds® ceiling, pendant² and straight stanchion top hats¹
	HV4	HazVertor™ adaptor ring stanchion angle mount¹
	HV5	HazVertor™ adaptor ring wall mount¹
	L4	1¼" Straight stanchion
	L5	1 <b>½</b> " Straight stanchion
	P2	¾" Rigid pendant
	<b>S4</b>	1 <b>¼</b> " 25° Angle stanchion
	<b>S</b> 5	1½" 25° Angle stanchion
	Blank	No mounting (to replace existing fixt.)

<sup>&</sup>lt;sup>1</sup> HV3, HV4 and HV5 HazVertors™ are CSA/CSAus certified

## **Options**

Part	Part number	Description
9 Finish	Blank	lvory
	G	Gray
	Т	Hazcote® black custom anti-corrosion coating (consult ABB rep)¹
10 Light distribution	13	Internal reflector 35° beam angle²
options	14	Internal reflector 45° beam angle²
	16	Internal reflector 65° beam angle²
	Blank	5,000K
	K30	3,000K <sup>1</sup>
	K35	3,500K <sup>1</sup>
	K40	4,000K <sup>1</sup>
11 Market	С	Canadian market
	Blank	U.S. market

<sup>&</sup>lt;sup>1</sup> Option subject to extended lead time.

<sup>&</sup>lt;sup>2</sup> Cannot be used with CUT

 $<sup>^2</sup>$  XSL305, XSL307 and XSL310 only, maximum 40°C (104°F) ambient temperature, cannot be combined with refractors and CUT. Cannot be added in the field.



These multi-functional and feature-rich fixtures are capable of both meeting and exceeding the demands of the food processing industry, industrial and commercial environments and architectural applications.



## CERTIFICATION

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

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS



Not all DL series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl















## APPLICATIONS

High mast	
Parking lots	
Tunnels	
Loading docks	
High bay	
Quality control areas	
Packaging areas	
Hangars	
Storage facilities	
Oil and gas processing	
Agricultural	
Marine/wet environments	
Chemical/industrial facilities	

## Key features and information

## FEATURES

- Field replaceable driver
- Operating temperature: -40°F to 131°F (-40°C to 55°C)
- · Thermally managed for maximum longevity
- Special powder coating for extreme resistance to chemical attack, aggressive cleaning agents and biocides used in food processing industries
- Low surface energy coating and smooth surface texture prevent debris build-up and staining
- Certified for hazardous locations, extreme water resistance, and corrosion protection for marine applications
- IDA Dark Sky Approved to protect the night time environment and reduce light pollution

## HOUSING

- Copper-free die-cast aluminum housing and high impact polycarbonate lens
- Available with multiple distribution patterns
- 3/4" NPT conduit entry

#### LED

- Efficacy: up to 105 Lm/W
- Lumen output: From 12,260 lumens to 31,670 lumens
- CREE LED's
- CRI Ra>90
- Correlated Color Temperature (CCT): 5,000K (standard), 2,700K, 3,000K, 3,500K and 4,000K (optional)

## ELECTRICAL

- 0-10V dimming (10%-100%)
- Operating voltage: 120-277VAC, 50/60Hz 347-480VAC
- Frequency: 50/60Hz
- Power factor 0.95
- Driver efficiency 88%
- THD <20%
- Surge protection standard at 6KV

#### MOUNTING

- Surface/suspended mount
- Wall mount
- Hanging pendant
- Pole mount
- Yoke mount
- High vibration yoke
- Slip fitter yoke mount

#### APPROVALS

- UL 844
- UL 8750 LED safety
- UL 1598 wet locations
- UL 1598A & ABS marine locations
- IDA Dark Sky Approved
- DLC
- cUL approved to CSA 22.2 No. 137,
   CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- IP66/67

## WARRANTY

• 5 year limited warranty

## T-code chart

		Optica	al models	Floo	d models	All models
Luminance	Input volt.	Ambient temp	Class I, Div 2 T-codes	Ambient temp	Class I, Div 2 T-codes	Class II, Div 2 T-codes
XSL1110	AC	-40 to 131°F (-40 to 55°C)	T3C	-40 to 131°F (-40 to 55°C)	T4A	Т5
XSL1110	HV	-40 to 129°F (-40 to 54°C)	ТЗС	-40 to 123°F (-40 to 51°C)	T4	Т5
XSL1115	AC	-40 to 131°F (-40 to 55°C)	T3C	-40 to 131°F (-40 to 55°C)	T4A	Т5
XSL1115	HV	-40 to 129°F (-40 to 54°C)	T3C	-40 to 123°F (-40 to 51°C)	T4	T5
XSL1120	AC	-40 to 131°F (-40 to 55°C)	ТЗС	-40 to 131°F (-40 to 55°C)	T4A	T5
XSL1120	HV	-40 to 129°F (-40 to 54°C)	T3C	-40 to 123°F (-40 to 51°C)	T4	T5
XSL1125	AC	-40 to 123°F (-40 to 51°C)	ТЗС	-40 to 131°F (-40 to 55°C)	T4A	T5
XSL1125	HV	-40 to 111°F (-40 to 44°C)	ТЗВ	-40 to 122°F (-40 to 50°C)	T4A	T5
XSL1130	AC	-40 to 109°F (-40 to 43°C)	Т3	-40 to 108°F (-40 to 42°C)	T4A	T5
XSL1130	HV	-40 to 109°F (-40 to 43°C)	Т3	-40 to 104°F (-40 to 40°C)	Т3	T5

## **Electrical specifications**

Luminance	Input voltage	Rated wattage (watts)	Rated voltage (volts)	Frequency (Hz)	Rated current (amps)
XSL1110	AC	107	120-277	50/60	1.11-0.48
XSL1110	HV	129	347-480	50/60	0.43-0.31
XSL1115	AC	145	120-277	50/60	1.42-0.61
XSL1115	HV	145	347-480	50/60	0.47-0.34
XSL1120	AC	190	120-277	50/60	1.74-0.75
XSL1120	HV	187	347-480	50/60	0.59-0.42
XSL1125	AC	247	120-277	50/60	2.18-0.95
XSL1125	HV	248	347-480	50/60	0.74-0.53
XSL1130	AC	312	120-277	50/60	2.82–1.22
XSL1130	HV	310	347-480	50/60	0.96-0.70

## PHOTOMETRY

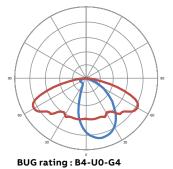
## Modular optics (20 options)

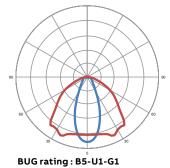
R2 – IESNA Type 2			
Model	Lumens	Lumens/ watts	
XSL1110	12,370	132	
XSL1115	16,340	130	
XSL1120	20,560	125	
XSL1125	26,090	117	
XSL1130	31,670	109	

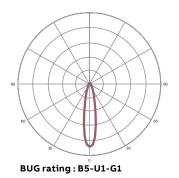
OC – Oval		
Model	Lumens	Lumens/ watts
XSL1110	12,370	132
XSL1115	16,340	130
XSL1120	20,560	125
XSL1125	26,090	117
XSL1130	31,670	109

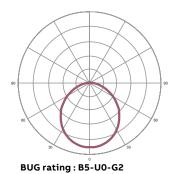
SC – Narrow 18°		
		Lumens/
Model	Lumens	watts
XSL1110	12,370	132
XSL1115	16,340	130
XSL1120	20,560	125
XSL1125	26,090	117
XSL1130	31,670	109

CUT – Wide beam			
Madal	•	Lumens/	
Model	Lumens	watts	
XSL1110	12,370	132	
XSL1115	16,340	130	
XSL1120	20,560	125	
XSL1125	26,090	117	
XSL1130	31,670	109	



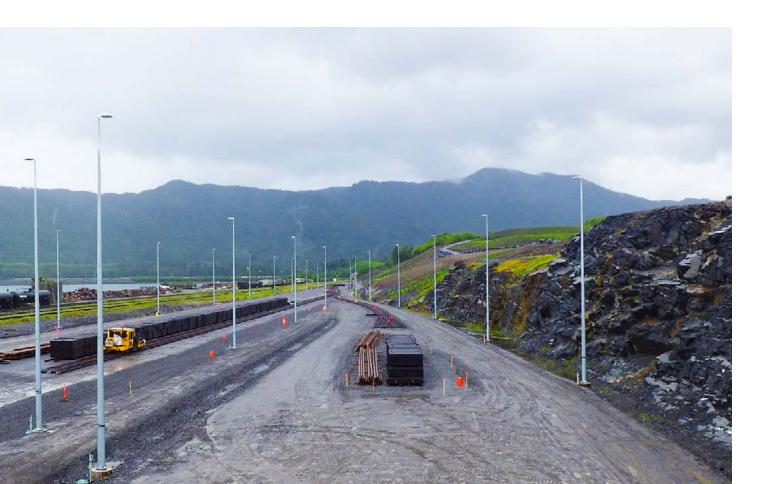




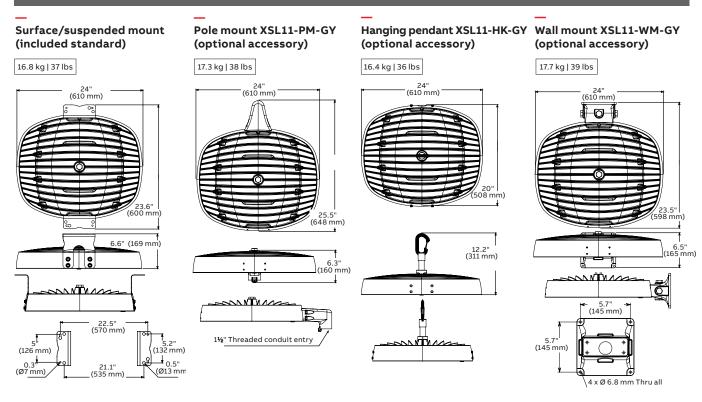


Standard offering above, alternate optical profiles available upon request.

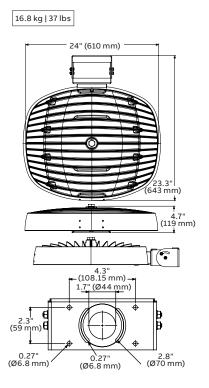
Contact sales representative for further details. Minimum order quantities, additional costs and lead times may incur.



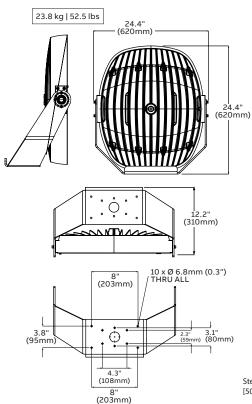
## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)



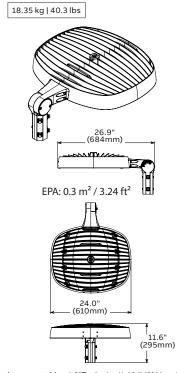
## Yoke mount XSL11-YM (optional accessory)



## High vibration yoke XSL11-YK (optional accessory)



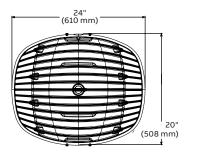
## Slip fitter yoke mount XSL11-SFY-GY (optional accessory)

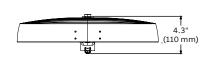


Stepped to accept either 1.5"Trade size (1-13/16" [46mm] to 2" [50mm] OD) & 2"Trade size (2-1/8" [53mm] to 2-7/16" [63mm])

## DIMENSIONS

Dimensions are approximate and subject to change.





## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

	Part	
Part	number	Description
1 Model	XSL1110	12,260 to 12,370 lumens
	XSL1115	16,200 to 16,490 lumens
	XSL1120	20,380 to 20,730 lumens
	XSL1125	25,860 to 26,610 lumens
	XSL1130	31,400 to 31,670 lumens
2 Optic	CUT	Wide beam (no optics)
	ос	Oval, 26° x 108°1
	R2	IESNA Type 21
	sc	Spot 18°1
3 Finish	GY	Gray
4 Color	27	Warm white (2,700K) <sup>1</sup>
	27H	Warm white, high CRI (2,700K) <sup>1</sup>
	30	Warm white (3,000K) <sup>1</sup>
	30H	Warm white, high CRI (3,000K) <sup>1</sup>
	35	Warm white (3,500K) <sup>1</sup>
	35H	Warm white, high CRI (3,500K) <sup>1</sup>
	40	Natural white (4,000K) <sup>1</sup>
	40H	Natural white, high CRI (4,000K) <sup>1</sup>
	50	Cool white (5,000K)
	50H	Cool white, high CRI (5,000K)

	Part	
Part	number	Description
5 Power	AC	120-277VAC
	н٧	347-480VAC
6 Location	HL	Hazardous location
7 Market	С	Canadian market
	Blank	U.S. market

## **Accessories** (sold separately)

Part number	Description
XSL11-WM-GY	Wall mount <sup>1</sup>
XSL11-HK-GY	Hanging pendant
XSL11-PM-GY	Pole mount <sup>1</sup>
XSL11-YM	Yoke mount <sup>1,2</sup>
XSL11-YK	High vibration yoke <sup>1,2</sup>
XSL11-SFY-GY	Slip fitter yoke mount
	XSL11-WM-GY XSL11-HK-GY XSL11-PM-GY XSL11-YM XSL11-YK

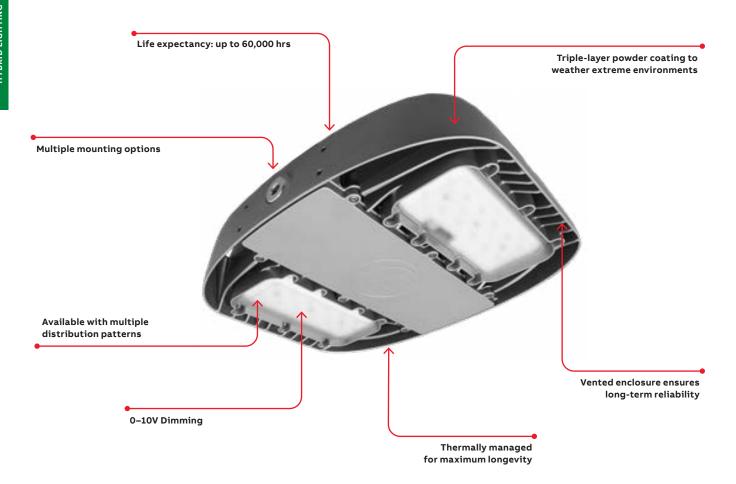
<sup>&</sup>lt;sup>1</sup>IDA Fixture seal of approval only applies to fixtures with a CCT of 3,000K or less, and that have fixed mounts aiming the fixture perpendicular to the ground. <sup>2</sup>Yoke mount only available in stainless steel finish.

Note: For Canadian market, please add "CA" to the part no. (ex: XSL11-WM-GYCA).

<sup>&</sup>lt;sup>1</sup>Option subject to extended lead time and minimum order quantities.



The unique combination of flexibility and robust design allows the implementation of this light fixture in various new or existing facilities. The XSL10 not only exceeds the expectations of an HID replacement, but establishes a new benchmark in versatility for industrial LED lighting.



## CERTIFICATION

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

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS











## APPLICATIONS

Hazardous locations	
Indoor lighting	
Tunnel lighting	
Industrial facilities	
Refinery and petrochemical facilities	

## Key features and information

## FEATURES

- Field replaceable driver
- Operating temperature -40°F to 131°F (-40°C to 55°C)
- · Thermally managed for longevity
- · Easy field angle adjustment
- Extreme vibration resistance
- Direct heat transfer from power supply to external case for optimal performance
- IDA Dark Sky Approved to protect the night time environment and reduce light pollution

#### HOUSING

- Unique heat sink design creates increased airflow for optimal LED and power supply operating temperature
- Copper-free die-cast aluminum housing and high impact polycarbonate lens
- Available with multiple distribution patterns
- 3/4" NPT conduit entry
- Metal core PCB (MCPCB)
- Modular optics
- Physical separation of electronics for increased system reliability
- Triple-layer coating suitable for marine applications

- Efficacy: up to 116 Lm/W
- Lumen output: From 2,980 lumens to 6,265 lumens
- Nichia LED's
- CRI Ra>80
- Correlated Color Temperature (CCT): 5,000K (standard), 2,700K, 3,000K, 3,500K and 4,000K (optional)

#### ELECTRICAL

- 0-10V dimming (1%-100%)
- Operating voltage: 120-277VAC 50/60Hz, 347-480VAC 60Hz
- Power factor 0.96
- Driver efficiency 86%
- THD <20%</li>
- Surge protection standard at 2.5KV

## MOUNTING

- Surface/suspended mount
- Wall pack mount
- Pole mount
- Yoke mount
- Conduit connection mount
- Hook pendant mount
- Slip fitter yoke mount

## APPROVALS

- UL 844
- UL 8750 LED safety
- UL 1598 wet locations
- UL 1598A marine
- IDA Dark Sky Approved
- cUL approved to CSA 22.2 No. 137, CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- IP66/67

## WARRANTY

5 year limited warranty

## T-code chart

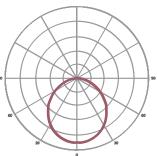
T4	Class 1, Div 2, Groups A, B, C, D
	Class 1, Zone 2, Group IIC
T4A	Class II, Div. 2, Groups F, G

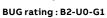
## **Electrical specifications**

Frequency	120-277VAC 50/60 Hz
	347VAC 60 Hz
Power	XSL1003: 26 W (CUT) - 29 W (R2, OC, SF)
	XSL1006: 51 W (CUT) - 57 W (R2, OC, SF)
Current	XSL1003: AC - 0.25A@120VAC HV - 010A@347VAC
	XSL1006: AC - 050A@120VAC HV - 020A@347VAC

## **Photometry**

CW)
<del>,</del>
050
650





.003	3,050	XSL1003
.006	5,650	XSL1006
	50	

BUG rating: B1-U0-G1

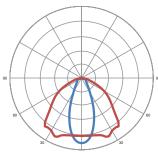
R2 – IESNA Type 2

Model Lumen output (CW)

2,980

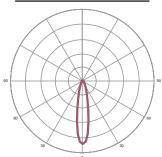
5,520

OC – Oval 26° x 108°				
Model	Lumen output (CW)			
XSL1003	3,290			
XSL1006	6,090			



BUG rating: B3-U2-G1

SF – Spot 18°				
Model	Lumen output (CW)			
XSL1003	3,380			
XSL1006	6,265			



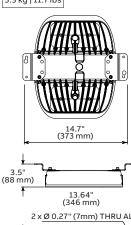
BUG rating: B4-U2-G1

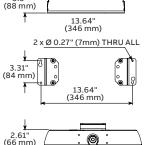
Standard offering above, alternate optical profiles available upon request.  $Contact \ sales \ representative \ for \ further \ details. \ Minimum \ order \ quantities, \ additional \ costs \ and \ details.$ lead times may incur.

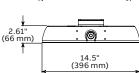
## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

## Surface mount (included standard)

5.3 kg | 11.7 lbs

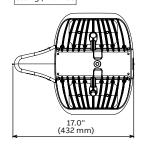


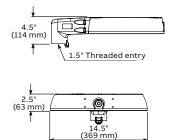




## Pole mount XSL10-PM-GY (optional accessory)

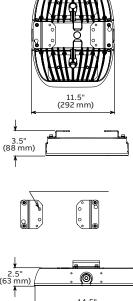
5.6 kg | 12.4 lbs

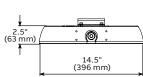




## Suspended mount (included standard)

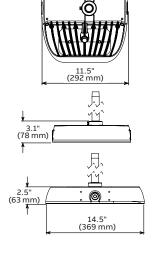
5.3 kg | 11.7 lbs





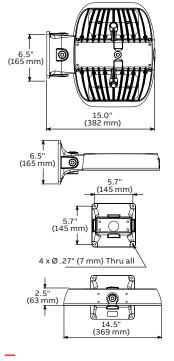
## **Conduit connection** XSL10-C-GY (optional accessory)

5.3 kg | 11.7 lbs



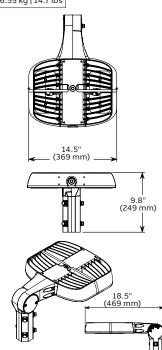
## Wall pack mount XSL10-WM-GY (optional accessory)

6.8 kg | 15 lbs



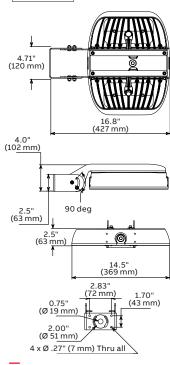
## Slip fitter mount XSL10-SFY-GY (optional accessory)

6.55 kg | 14.7 lbs



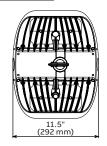
## Yoke mount XSL10-YM (optional accessory)

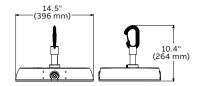
6.3 kg | 13.9 lbs



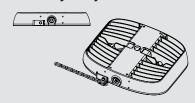
## Hook pendant mount XSL10-HK-GY (optional accessory)

4.9 kg | 10.8 lbs



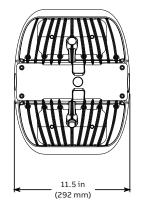


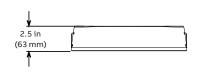
## Secondary safety XSL10-SS

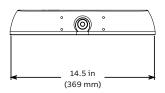


## DIMENSIONS

Dimensions are approximate and subject to change.







## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

	Part	
Part	number	Description
1 Model	XSL1003	2,980 to 3,380 lumens
	XSL1006	5,520 to 6,265 lumens
2 Optic	CUT	Wide (no optic)
	ос	Oval 26° x 108°1
	R2	IESNA Type 21
	SF	Spot 18°1
3 Finish	GY	Gray
4 Color	27	Warm white (2,700K) <sup>1</sup>
	30	Warm white (3,000K) <sup>1</sup>
	35	Warm white (3,500K) <sup>1</sup>
	40	Natural white (4,000K) <sup>1</sup>
	CW	Cool white (5,000K)
5 Power	AC	120 to 277VAC
	HV	347VAC
6 Location	HL	Hazardous location
7 Market	С	Canadian market
	Blank	U.S. market

 $<sup>^{\</sup>mbox{\tiny 1}}\mbox{Option}$  subject to extended lead time and minimum order quantities.

## **Accessories** (sold separately)

Part number	Description
XSL10-WM-GY	Wall pack mount <sup>3</sup>
XSL10-PM-GY	Pole mount <sup>3</sup>
XSL10-YM	Yoke mount <sup>2</sup>
XSL10-CC-GY	Conduit connection <sup>3</sup>
XSL10-HK-GY	Hook pendant mount
XSL10-SS	Secondary safety
XSL10-SFY-GY	Slip fitter mount

<sup>&</sup>lt;sup>2</sup>Only available in stainless steel

<sup>3</sup>IDA Fixture seal of approval only applies to fixtures with a CCT of 3,000K or less, and that have fixed mounts aiming the fixture perpendicular to the ground.

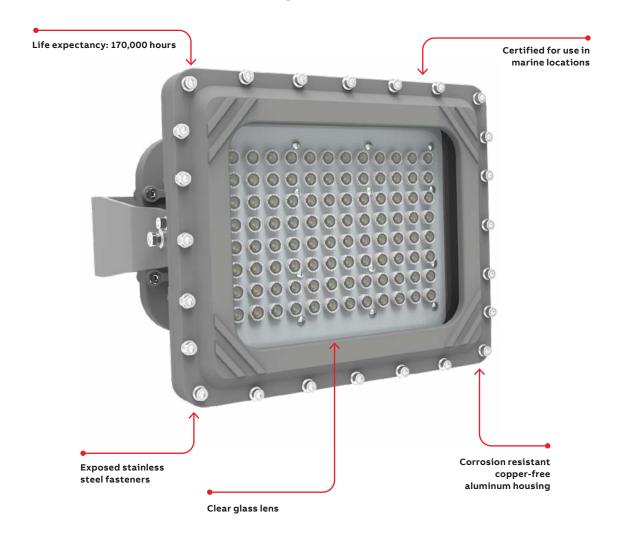
Note: For Canadian market, please add "CA" to the part no. (ex: XSL10-WM-GYCA).



**New** product

## **Ex-Solutions™ XFL15 LED Series**

The high-intensity floodlight is energy-efficient and made from corrosion-resistant, copper-free aluminum. The explosion-proof fixture can be installed in hazardous, marine locations like power plants, loading docks, and petrochemical facilities.



## CERTIFICATION

CLASS I	
Division 1	Group C, D
Division 2	Group A, B, C, D
CLASS II	
Division 2	Group F, G
CLASS III	

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS











Not all DL series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl

## APPLICATIONS

Power pla	nts			
Paper mil	s			
Wastewat	er treatm	ent plan	ts	
Loading c	ocks			
Chemical	processir	ng		
Petroche	nical facil	ities		

## Key features and information

## FEATURES

- Operating temperature: -40°F to 140°F (-40°C +60°C) optimal 77°F (25°C)
- Exposed hardware made of stainless steel
- High efficacy for increased energy savings

## HOUSING

- Housing made of copper-free aluminum
- Anti-corrosion housing (tested for 1,000hrs)
- Tempered glass lens is impact and thermal shock resistant
- Lens tested to IK09
- High temperature silicone gasketing

## LED

- Efficacy: up to 130 Lm/W
- Lumen output: From 10,400 lumens to 19,500 lumens
- OSRAM LED's
- CRI Ra>70
- Correlated Color Temperature (CCT): 5,000K (standard), 3,000K and 4,000K (optional)

## ELECTRICAL

- Operating voltage: universal 120-277VAC, 347-480VAC (50/60Hz)
- Power factor 0.95
- Driver efficiency 90%
- THD <20%
- Surge protection standard at 4KV (Contact your sales representative if high protection is required.)

## MOUNTING

- Pendant mount
- Optional yoke/pipe bracket for wall/ceiling or pole mount

## APPROVALS

- UL844
- UL 8750 LED safety
- UL 1598 wet locations
- UL1598A marine
- cUL approved to CSA 22.2 No. 137,
   CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- FCC
- IP66
- IK09
- DLC

Not all product variations listed on this page are DLC qualified.

Visit www.designlights.org/search to confirm qualification.

- 5G (shock and vibration resistant)
- 1,000hrs salt spray

## WARRANTY

5 year limited

## T-code chart

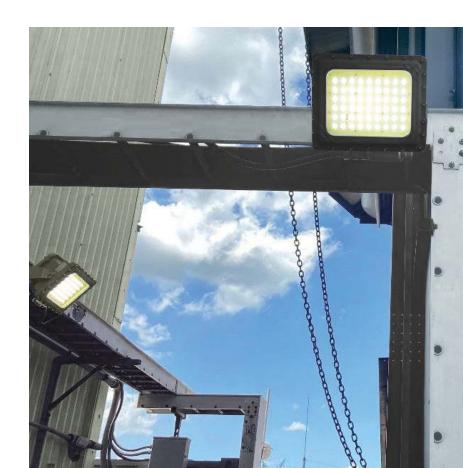
Fixture	80 watt	100 watt	150 watt
C1D1	T6	Т6	T6
C1D2	T4A	T4A	T4A
CIID2	T4A	T4A	T4A

## **Electrical specifications**

Specification		XFL15-8	XFL15-10	XFL15-15
Rated power		80W	100W	150W
Input voltage	120-277, 347-480VAC			
Input frequency	50/60Hz			
Input current —	(120/277VAC)	0.63/0.29A	0.82/0.36A	1.7/0.54A
	(347/480VAC)	0.24/0.17A	0.29/0.21A	0.43/0.31A

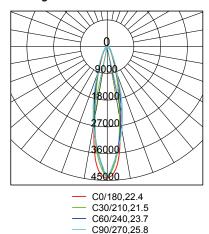
## **Lighting output**

Fixture	80 watt	100 watt	150 watt
Lumen output	10,400	13,000	19,500
Lumen per watt	130	130	130



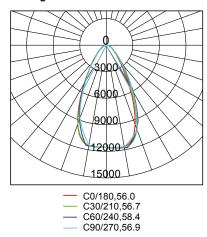
## **PHOTOMETRY**

## 25 degree



### BUG rating: B4-U0-G1

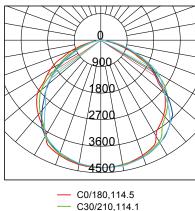
## 60 degree



Yoke/pipe bracket mount (optional accessory)

BUG rating: B4-U0-G1

## 120 degree



- C30/210,114.1 - C60/240,110.6 C90/270,113.2

BUG rating: B4-U0-G1

## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

## **Pendant mount** (included standard)

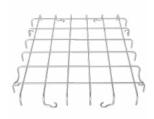






Requires yoke/pipe bracket.

## Accessories



WG01-EX Stainless steel wire guard

## Yoke/pipe bracket



UB01-EX Yoke/pipe bracket (SUS 304) stainless steel



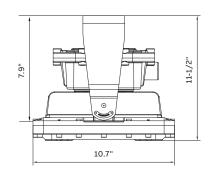
UB03-EX Anti-vibration U-bracket

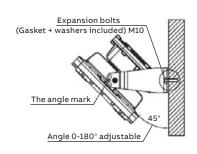
## Pole type stanchion



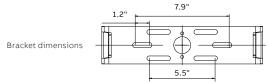
SN01-EX Pole type stanchion Note: Standard slipfitter for 2-3/8" (60mm) pole

# 13-1/2" 12.9"





Dimensions are approximate and subject to change.



Model	Weight	Dimensions (L x W x H)
XFL15-8	15.2kg/33.5lbs	
XFL15-10	15.3kg/33.7lbs	12.9 x 10.7 x 6.9 in
XFL15-15	15.5kg/34.2lbs	

## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

	Part	
Part	number	Description
1 Series	XFL15	Flood light LED
2 Wattage/lumens	8	80W (10,400 lm)
	10	100W (13,000 lm)
	15	150W (19,500 lm)
3 Voltage	1	120-277VAC
	4	347-480VAC
4 Color temp	К3	3,000K <sup>1</sup>
	K4	4,000K <sup>1</sup>
	K5	5,000K (standard)
5 Optics	N	25°1
	W	120° (standard)
6 Hazloc	1	CID1
	2	C1D2, CIID2
7 Lens	TG	Clear glass
8 Mounting	Р	NPT 3/4 pendant mount
	U	NPT 3/4 pendant mount + yoke bracket
9 Color	G	Gray
10 Market	С	Canadian market
	Blank	U.S. market

 $<sup>^{1}\</sup>text{Longer}$  lead time, contact your sales representative for more details

## **Accessories** (sold separately)

Part number	Description
SN01-EX	Pole type stanchion
UB01-EX	Yoke/pipe bracket (SUS 304) stainless steel
UB03-EX	Anti-vibration U-bracket
WG01-EX	Stainless steel wire guard

Note: For Canadian market, please add "CA" to the part no. (ex: SN01-EX-CA).





## **Table of contents**

## Linear lighting products



## Accessories

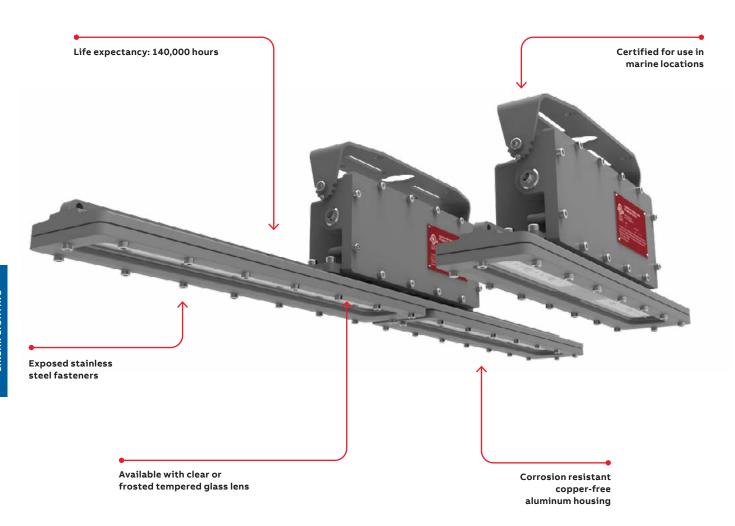


Quick pole assembly

**New** product

## **Ex-Solutions™ XLN17 LED Series**

Extremely durable and water-tight, the XLN17 LED Series has a slim and compact design. This explosion-proof fixture can withstand the most demanding hazardous location environments like paper mills, chemical facilities, and wastewater treatment plants.



## CERTIFICATION

CLASS I	
Division 1	Group C, D
Zone 1	
Division 2	Group A, B, C, D
Zone 2	
Simultaneous presence	

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS







Not all DL series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl

## APPLICATIONS

Mining	
Paper mills	
Chemical/industrial facilities	
Wastewater treatment plants	
Loading docks	
Petrochemical facilities	
Paint spray booth	

LINEAR LIGHTING 43

## **Ex-Solutions™ XLN17 LED Series**

## Key features and information

## FEATURES

- Operating temperature: -40°F to 140°F (-40°C +60°C) optimal 77°F (25°C)
- Exposed hardware made of stainless steel
- Slim and compact design

## HOUSING

- Housing made of copper-free aluminum
- Anti-corrosion housing (tested for 1,000hrs)
- Tempered glass lens is impact and thermal shock resistant

## LED

- Efficacy: up to 120 Lm/W
- Lumen output: from 4,800 lumens to 9,600 lumens
- OSRAM LED's
- UL 8750 LED safety
- CRI Ra>70
- Correlated Color Temperature (CCT): 5,000K (standard), 3,000K and 4,000K (optional)

## ELECTRICAL

- Operating voltage: universal 120-277VAC, 347-480VAC (50/60Hz)
- Power factor 0.95
- Driver efficiency 90%
- THD <20%
- Surge protection standard up to 10KV (Contact your sales representative if high protection is required.)

## MOUNTING

- Pendant mount
- Optional yoke/pipe bracket for wall/ceiling or pole mount
- Chain mount (chain not included)

## APPROVALS

- UL 844
- UL 1598A marine outside type
- UL 1598 wet locations
- UL 8750 LED safety
- cUL approved to CSA 22.2 No. 137,
   CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- IP66
- DLC: not all product variations listed on this page are DLC qualified. Visit www.designlights.org/search to confirm qualification.
- 5G (shock and vibration resistant)
- 1,000hrs salt spray

### WARRANTY

• 5 year limited warranty

## T-code chart

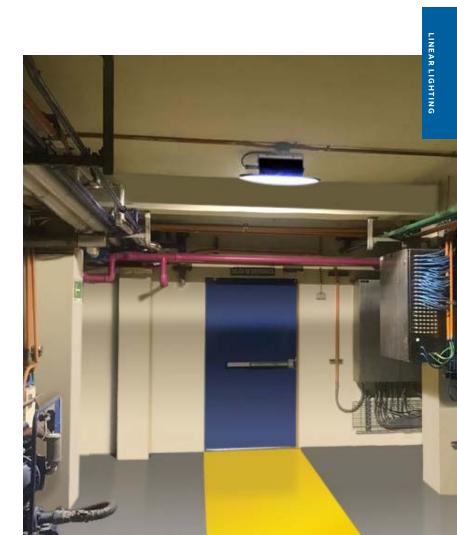
Fixture	40 watt	80 watt
C1D1	T6	T6
C1D2	T3C	T3C

## **Electrical specifications**

Specification		XLN17-4	XLN17-8
Rated power	40W 80 <sup>o</sup>		80W
Input voltage	120-277, 347-480VAC		
Input frequency	50/60Hz		
Input current —	(120/277VAC)	0.4/0.14A	0.8/0.29A
	(347/480VAC)	0.14/0.08A	0.29/0.17A

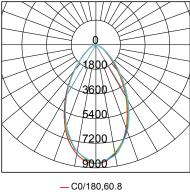
## **Lighting output**

Fixture	40 watt	80 watt
Lumen output	4,800	9,600
Lumen per watt	120	120



## **PHOTOMETRY**

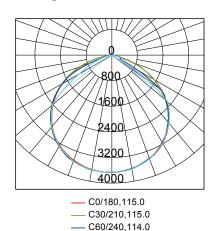
## 60 degree



- C30/210,60.8
- C60/240,61.3
- C90/270,61.0

BUG rating: B3-U0-G2

## 110 degree



C90/270,107.0

BUG rating: B3-U0-G2

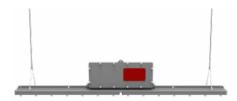
## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

## Pendant mount (included standard)

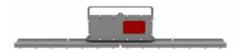


## Chain mount (compatible)

Chain not included.



Ceiling & wall mount (optional accessory)



## **Stanchion mount** (optional accessory)



## Accessories



PC01-EX - Pipe clamp (1 pair) Pipe clamp (M8\*48mm) for pole Ø 1-7/8" (48mm)



PC02-EX - Pipe clamp (1 pair) Pipe clamp (M8\*60mm) for pole Ø 2-3/8" (60mm)



UB02-EX - Yoke/pipe bracket (SUS 304) stainless steel



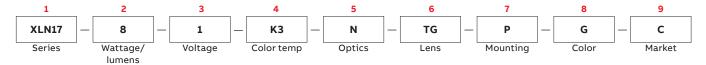
SC04-EX - Stainless steel safety cable kit

## DIMENSIONS Dimensions are approximate and subject to change. XLN17-4 SC04-EX - Stainless steel Bracket dimensions 7.5" safety cable kit 1.8" TANK Ø.12" 3.1" 3.1" 21.4" L= 39.4" XLN17-8 **TANK** 7.3" Hook 43.3"

Model	Weight	Dimensions (L x W x H)
XLN17-4	7.3kg/16.1lbs	21.4 x 4.3 x 7.3 in
XLN17-8	10.8kg/23.8lbs	43.3 x 4.3 x 7.3 in

## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

	Part	
Part	number	Description
1 Series	XLN17	Linear light LED
2 Wattage/lumens	4	40W (4,800 lm)
	8	80W (9,600 lm)
3 Voltage	1	120-277VAC
	4	347-480VAC
4 Color temp	К3	3,000K <sup>1</sup>
	K4	4,000K <sup>1</sup>
	K5	5,000K (standard)
5 Optics	N	60°1
	W	110° (standard)
6 Lens	TG	Clear glass
	FG	Frosted glass <sup>1</sup>
7 Mounting	Р	NPT 3/4 pendant mount
	U	NPT 3/4 pendant mount + yoke bracket
8 Color	G	Gray
9 Market	С	Canadian market
	Blank	U.S. market

## <sup>1</sup>Longer lead time, contact your sales representative for more details

## Accessories (sold separately)

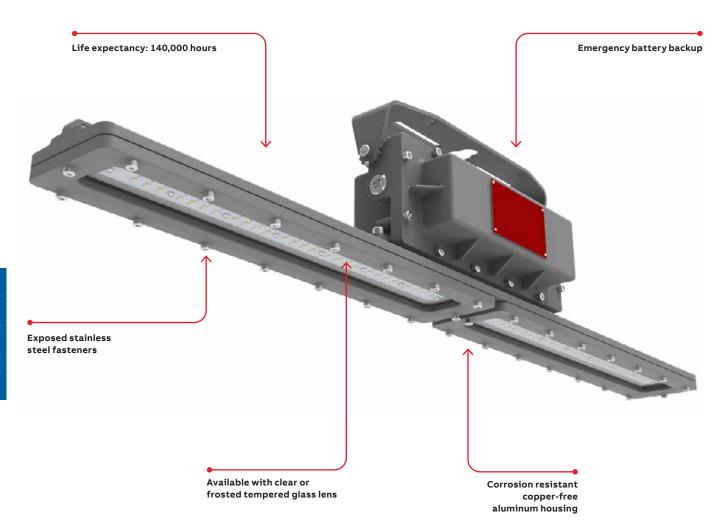
Part number	Description
PC01-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*48mm) for pole Ø 1-7/8" (48mm)
PC02-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*60mm) for pole Ø 2-3/8" (60mm)
SC04-EX	Stainless steel safety cable kit
UB02-EX	Yoke/pipe bracket (SUS 304) stainless steel

Note: For Canadian market, please add "CA" to the part no. (ex: PC01CA-EX).

**New** product

## **Ex-Solutions™ XLN17-EM LED Series**

Versatile, shock-resistant, and explosion-proof lighting with a slim design, the XLN17-EM LED Series can be mounted on a wall, ceiling, and pole in various hazardous locations, ranging from mines to petrochemical facilities.



## CERTIFICATION

CLASS I
Division 1 Group C, D
Zone 1

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS



## APPLICATIONS

Mining
Paper mills
Chemical/industrial facilities
Wastewater treatment plants
Petrochemical facilities

## Key features and information

## FEATURES

- Operating temperature: -4°F to 113°F (-20°C +45°C) optimal 77°F (25°C)
- Exposed hardware made of stainless steel
- Slim and compact design
- Emergency run time: 90 minutes

## HOUSING

- Housing made of copper-free aluminum
- Tempered glass lens is impact and thermal shock resistant

## LED

- Efficacy: up to 136 Lm/W
- Lumen output: 10,800 lumens
- OSRAM LED's
- CRI Ra>70
- Correlated Color Temperature (CCT): 5,000K (standard)

## ELECTRICAL

- Operating voltage: 120-277VAC (50/60Hz)
- Power factor 0.95
- Driver efficiency 90%
- THD <20%
- Surge protection standard up to 10KV (Contact your sales representative if high protection is required.)

## MOUNTING

- Pendant mount
- Optional yoke/pipe bracket for wall/ceiling or
- Chain mount (chain not included)

## APPROVALS

- UL 844
- UL924
- cUL approved to CSA 22.2 No. 137, CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- 5G (shock and vibration resistant)
- 1,000hrs salt spray

## WARRANTY

• 5 year limited warranty

## T-code chart

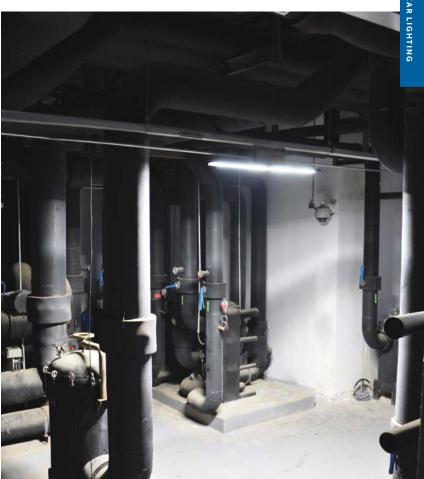
Fixture	80 watt
C1D1	T6

## **Electrical specifications**

Specification	XLN17-EM-8 (battery backup)
Rated power	80W (6W)
Input voltage	120-277VAC only (50/60Hz)
Battery	Nickel-cadmium
Expected battery life	5 years
Charge time	24 hours
Emergency run time	90 min.
Input current (standard mode)	0.67/0.29A (AC120/277VAC)

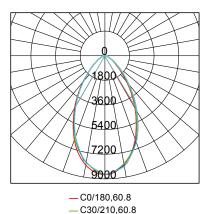
## **Lighting output**

Fixture	80 watt
Lumen output - normal mode	10,800
Lumen output - emergency mode	812
Lumen per watt - normal mode	136



## **PHOTOMETRY**

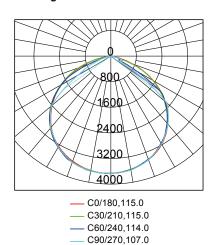
## 60 degree



- C60/240,61.3

— C90/270,61.0 BUG rating: B3-U0-G2

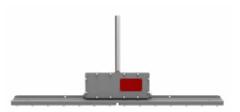
## 110 degree



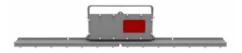
BUG rating: B3-U0-G2

## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

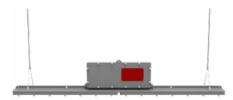
## Pendant mount (included standard)



Ceiling & wall mount (optional accessory)

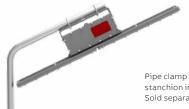


## Chain mount (compatible)



Chain not included.

## **Stanchion mount** (optional accessory)



Pipe clamp and yoke/pipe bracket required for stanchion installation.
Sold separately.

## Accessories



PC01-EX - Pipe clamp (1 pair) Pipe clamp (M8\*48mm) for pole Ø 1-7/8" (48mm)



PCO2-EX - Pipe clamp (1 pair) Pipe clamp (M8\*60mm) for pole Ø 2-3/8" (60mm)



**UB02-EX** - Yoke/pipe bracket (SUS 304) stainless steel

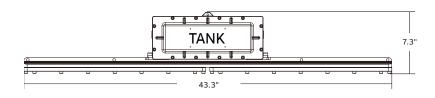


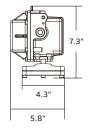
SC04-EX - Stainless steel safety cable kit

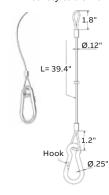
## DIMENSIONS

## Dimensions are approximate and subject to change.

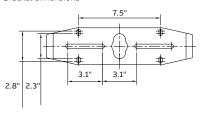
SC04-EX - Stainless steel safety cable kit







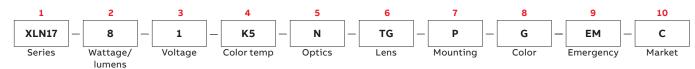
Bracket dimensions



Model	Weight	Dimensions (L x W x H)
XLN17-EM-8	12.2kg/26.9lbs	43.3 x 5.8 x 7.3 in

## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

	Part	
Part	number	Description
1 Series	XLN17	Linear light LED
2 Wattage/lumens	8	80W (10,800 lm)
3 Voltage	1	120-277VAC
4 Color temp	K5	5,000K
5 Optics	N	60°1
	W	110° (standard)
6 Lens	TG	Clear glass
	FG	Frosted glass <sup>1</sup>
7 Mounting	Р	NPT 3/4 pendant mount
	U	NPT 3/4 pendant mount + yoke bracket
8 Color	G	Gray
9 Emergency	EM	Emergency 90 minutes
10 Market	С	Canadian market
	Blank	U.S. market

<sup>&</sup>lt;sup>1</sup>Longer lead time, contact your sales representative for more details

## Accessories (sold separately)

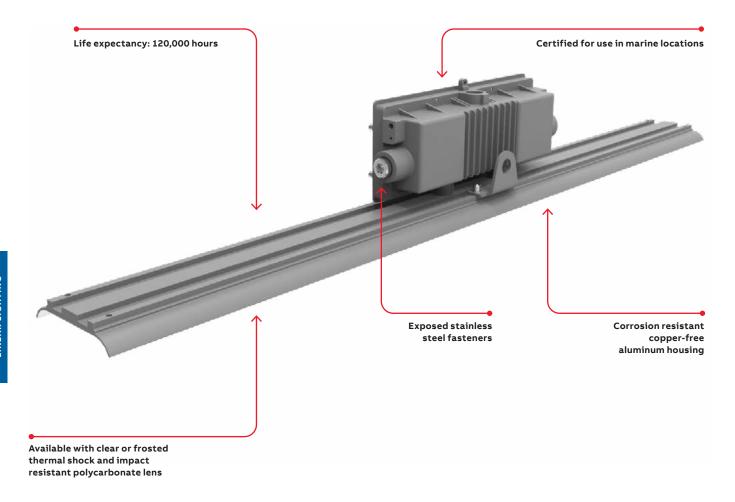
Part number	Description
PC01-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*48mm) for pole Ø 1-7/8" (48mm)
PC02-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*60mm) for pole Ø 2-3/8" (60mm)
SC04-EX	Stainless steel safety cable kit
UB02-EX	Yoke/pipe bracket (SUS 304) stainless steel

Note: For Canadian market, please add "CA" to the part no. (ex: PC01CA-EX).

**New** product

## **Ex-Solutions™ XLN16 LED Series**

The XLN16 LED Series is a slim, shock and vibration resistant fixture made of copper-free aluminum. This durable product has exposed hardware made from stainless steel and is suitable for marine and wet locations.



# CERTIFICATION CLASS I Division 2 Group A, B, C, D Zone 2 CLASS II Division 1 Group E, F, G Zone 21 CLASS III

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS













Not all DL series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl

## APPLICATIONS

Power plants	
Paper mills	
Wastewater treatment plants	
Loading docks	
Chemical processing	
Storage facilities	

## Key features and information

## FEATURES

- Operating temperature: -40°F to 122°F (-40°C +50°C) optimal 77°F (25°C)
- Exposed hardware made of stainless steel
- Slim and compact design

## HOUSING

- Housing made of copper-free aluminum
- Anti-corrosion housing (tested for 1,000hrs)
- Shock and impact resistant polycarbonate lens
- Lens tested to IK08

## LED

- Efficacy: up to 137 Lm/W
- Lumen output: from 5,480 lumens to 10,960 lumens
- Meanwell LED's
- UL 8750 LED safety
- CRI Ra>70
- Correlated Color Temperature (CCT): 5,000K (standard), 3,000K and 4,000K (optional)

## ELECTRICAL

- Operating voltage: universal 120-277VAC, 347-480VAC (50/60Hz)
- Power factor 0.95
- Driver efficiency 90%
- THD <20%
- Surge protection standard at 4KV (Contact your sales representative if high protection is required.)

## MOUNTING

- Pendant mount
- Optional yoke/pipe bracket for wall/ceiling or pole mount
- Chain mount (chain not included)

## APPROVALS

- UL844
- UL 1598A marine
- UL 1598 wet locations
- UL 8750 LED safety
- cUL approved to CSA 22.2 No. 137,
   CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- FCC
- IP66
- IK08DLC
  - Not all product variations listed on this page are DLC qualified.
  - Visit www.designlights.org/search to confirm qualification.
- 5G (shock and vibration resistant)
- 1,000hrs salt spray

## WARRANTY

5 year limited warranty

## T-code chart

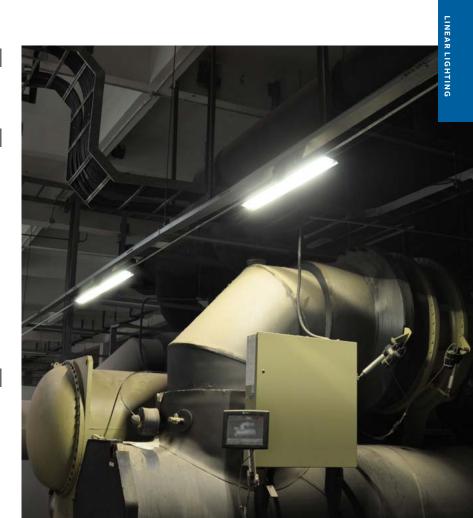
Fixture	40 watt	80 watt
C1D2	T3C	T3C
CIID1	T4A	T4A

## **Electrical specifications**

Specification		XLN16-4	XLN16-8	
Rated power		40W		
Input voltage	120-277, 347-480VAC			
Input frequency	50/60Hz			
Innut current	(120/277VAC)	0.34/0.16A	0.67/0.32A	
Input current —	(347/480VAC)	0.13/0.09A	0.25/0.18A	

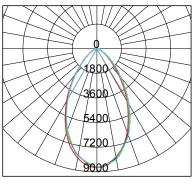
## **Lighting output**

Fixture	40 watt	80 watt
Lumen output	5,480	10,960
Lumen per watt	137	137



## **PHOTOMETRY**

## 110 degree



- \_\_C0/180,60.8
- C30/210,60.8
- C60/240,61.3
- C90/270,61.0

BUG rating: B3-U0-G1

## MOUNTING AND OPTIONAL ACCESSORIES (sold separately)

## Pendant mount (included standard)



## Chain mount (compatible)



Chain not included.

## Yoke/pipe bracket (optional accessory) Ceiling and wall



## **Stanchion mount** (optional accessory)



## **Accessories**



PC01-EX - Pipe clamp (1 pair) Pipe clamp (M8\*48mm) for pole Ø 1-7/8" (48mm)



PCO2-EX - Pipe clamp (1 pair) Pipe clamp (M8\*60mm) for pole Ø 2-3/8" (60mm)



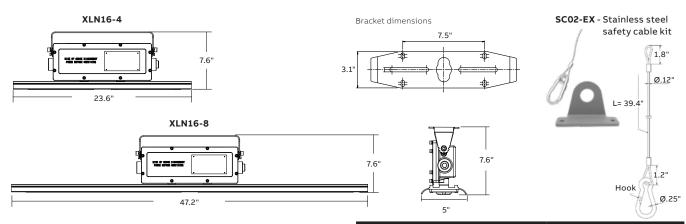
**UB02-EX** - Yoke/pipe bracket (SUS 304) stainless steel



SC02-EX - Stainless steel safety cable kit

## DIMENSIONS

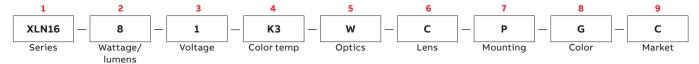
## Dimensions are approximate and subject to change.



Model	Weight	Dimensions (L x W x H)
XLN16-4	5.5kg/12.1lbs	23.6 x 5.0 x 7.6 in
XLN16-8	7.6kg/16.7lbs	47.2 x 5.0 x 7.6 in

## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

	Part	
Part	number	Description
1 Series	XLN16	Linear light LED
2 Wattage/lumens	4	40W (5,480 lm)
	8	80W (10,960 lm)
3 Voltage	1	120-277VAC
	4	347-480VAC
4 Color temp	К3	3,000K <sup>1</sup>
	K4	4,000K¹
	K5	5,000K (standard)
5 Optics	W	110°
6 Lens	С	Clear polycarbonate
	F	Frosted polycarbonate <sup>1</sup>
7 Mounting	P	NPT 3/4 pendant mount
	U	NPT 3/4 pendant mount + yoke bracket
8 Color	G	Gray
9 Market	С	Canadian market
	Blank	U.S. market

## <sup>1</sup>Longer lead time, contact your sales representative for more details

## Accessories (sold separately)

Part number	Description
PC01-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*48mm) for pole Ø 1-7/8" (48mm)
PC02-EX	Pipe clamp (1 pair)
	Pipe clamp (M8*60mm) for pole Ø 2-3/8" (60mm)
SC02-EX	Stainless steel safety cable kit
UB02-EX	Yoke/pipe bracket (SUS 304) stainless steel

 $\textbf{Note:} \ \text{For Canadian market, please add "CA" to the part no. (ex: PC01CA-EX)}.$ 

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



## CERTIFICATION

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

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS













### UL844 UL1598A UL8750

## APPLICATIONS

Tunnels				
Interior f	luoresce	nt replace	ment	
Loading	docks			

## Key features and information

## FEATURES

- Field replaceable driver
- Operating temperature: -40 to 131°F (-40 to 55°C)
- Ideal for dirty, wet and corrosive environments
- IDA Dark Sky Approved to protect the night time environment and reduce light pollution features
- Multiple light output options to replace fluorescent fixtures

## HOUSING

- IP66 vented enclosure eliminates pressure differentials for reliable sealing
- Powder-coated end caps
- Copper-free die-cast aluminum housing and high impact polycarbonate lens
- Available with multiple distribution patterns
- 3/4" NPT conduit entry

### LED

- Efficacy: up to 115 Lm/W
- Lumen output: From 3,970 lumens to 10,470 lumens
- Nichia LED's
- CRI Ra>70
- Metal core PCB
- Correlated Color Temperature (CCT): 5,000K (standard), 2,700K, 3,000K, 3,500K and 4,000K (optional)

## ELECTRICAL

- 0-10V dimming (1%–100%)
- Operating voltage: 120-277VAC, 347-480VAC
- Frequency: 50/60Hz
- Power factor 0.95
- Driver efficiency 88%
- THD <20%
- Surge protection standard at 6KV
- Fault tolerant and fail-over design ensures reliability and resilience to damage

## MOUNTING

- Surface mount
- Suspended mount
- Angle adjustable mount

## APPROVALS

- UL 844
- UL 8750 LED safety
- UL 1598 wet locations
- UL 1598A and ABS marine locations
- cUL approved to CSA 22.2 No. 137, CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- IP66

## WARRANTY

• 5 year limited warranty

## T-code chart

Model	Input voltage	Rated voltage (Volts)	T-codes (Class I Div. 2)	T-codes (Class II Div. 2)
XLN132S	AC	120-277VAC	T4A	T4
	HV	347-480VAC	T4A	T4
XLN132H	AC	120-277VAC	T4A	T4
	HV	347-480VAC	T4A	T4
XLN132X	AC	120-277VAC	T5	T4
	HV	347-480VAC	T5	T4A
XLN134S	AC	120-277VAC	T4A	T4A
	HV	347-480VAC	T4A	T4A
XLN134H	AC	120-277VAC	T4A	T4A
	HV	347-480VAC	T4A	T4A

## **Electrical specifications and lighting output**

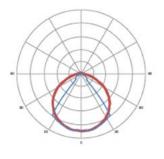
	laansk	Rated	Data divalta na	F====		Total
Model	Input voltage	wattage (Watts)	Rated voltage (Volts)	Freq. (Hz)	Ambient temp.	
XLN132S					-40 to 131°F	
	AC	36	120-277VAC	50/60	(-40 to 55°C)	3,970
					-40 to 129°F	
	HV	36	347-480VAC	50/60	(-40 to 54°C)	3,970
XLN132H					-40 to 131°F	
	AC	52	120-277VAC	50/60	(-40 to 55°C)	5,143
					-40 to 129°F	
	HV	52	347-480VAC	50/60	(-40 to 54°C)	5,143
XLN132X					-40 to 126°F	
	AC	70	120-277VAC	50/60	(-40 to 52°C)	7,965
					-40 to 115°F	
	HV	82	347-480VAC	50/60	(-40 to 46°C)	7,965
XLN134S					-40 to 131°F	
	AC	85	120-277VAC	50/60	(-40 to 55°C)	8,697
					-40 to 129°F	
	HV	90	347-480VAC	50/60	(-40 to 54°C)	8,697
XLN134H					-40 to 129°F	
	AC	105	120-277VAC	50/60	(-40 to 54°C)	10,470
					-40 to 126°F	
	HV	109	347-480VAC	50/60	(-40 to 52°C)	10,470

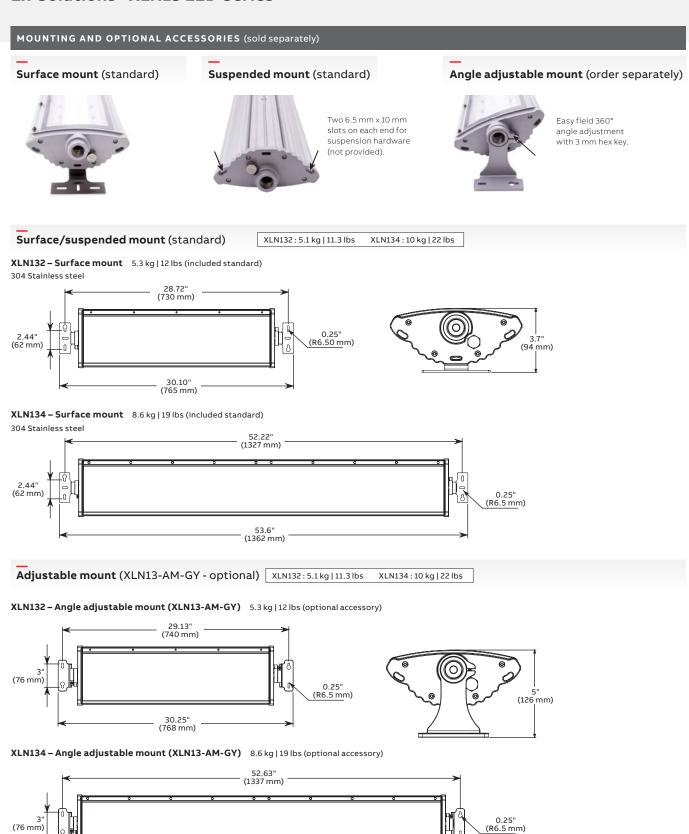
## PHOTOMETRY

## **Optic options**

## WC Wide 100°

Model	BUG Rating
XLN132	B3-U1-G1
XLN134	B3-U2-G1



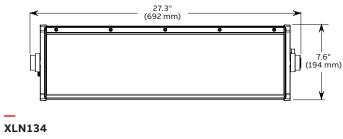


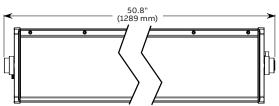
53.75" (1365 mm)

## DIMENSIONS

Dimensions are approximate and subject to change.

## XLN132







## NUMBERING SYSTEM

## Lighting fixture



## Ordering information

Part	Part number	Description
1 Model		•
1 Model	XLN132	2 foot
	XLN134	4 foot
2 Output	S	Standard
	н	High-output
	х	Extra high-output (not available with XLN134)
3 Optic	WC	Wide (no optics)
4 Finish	GY	Gray
5 Color	27	Warm white (2,700K)¹
	30	Warm white (3,000K) <sup>1</sup>
	35	Warm white (3,500K) <sup>1</sup>
	40	Natural white (4,000K) <sup>1</sup>
	50	Cool white (5,000K)
6 Power	AC	120 to 277VAC
	HV	347 to 480VAC
<b>7</b> Location	HL	Hazardous location
8 Market	С	Canadian market
	Blank	US market

## <sup>1</sup>Option subject to extended lead time and minimum order quantities.

## Accessories (sold separately)

Part number	Description
XLN13-AM-GY	Adjustable mount

Note: For Canadian market, please add "CA" to the part no. (ex: XLN13-AMCA-GY).

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



## CERTIFICATION

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

Classification may vary depending on the product configuration. Please follow catalogue information and exceptions.

## APPROVALS















c22.2 no. 250 c22.2 no 250.13

<sup>1</sup>IP68 only available with DC general location version

## APPLICATIONS

Vehicle/equipment
Enclosures
Tunnel lighting

LINEAR LIGHTING 59

## **Ex-Solutions™ XLN12 LED Series**

## Key features and information

## FEATURES

- Operating temperature:
   AC -40 to 149°F (-40 to 65°C)
   DC -40 to 140°F (-40 to 60°C)
- Light weight linear strip luminaire
- IDA Dark Sky Approved to protect the night time environment and reduce light pollution features
- High efficiency internal reflector maximizes output
- Suitable for wet location

## HOUSING

- Heat-sink designed for optimal heat dissipation
- Unique case design utilizes compression for sealing and eliminates fasteners on the front face
- MIL-SPEC Hard anodizing (body) and super-durable powdercoat (end caps) suitable for rugged outdoor environments
- Copper-free die-cast aluminum housing and high impact polycarbonate lens

### LED

- Efficacy: up to 58 Lm/W
- Lumen output: from 559 lumens to 2,289 lumens
- CREE LED's
- CRI Ra>80
- Metal core PCB
- Correlated Color Temperature (CCT): 5,000K (standard), 3,000K, 3,500K and 4,000K (optional)
- Note: Special LED colors for XLN12 DC version available upon request (amber, blue, green and red).

## ELECTRICAL

- Standard with 3ft. whip
- AC and DC options
- Operating voltage: 11–16VDC; 21–28VDC; 120VAC, 50/60Hz
- Power factor 0.95
- Driver efficiency 80%
- THD <20%
- Surge protection standard at 2.5KV
- 12V or 24V DC input options can run directly off of vehicle or facility low voltage DC

## MOUNTING

- Adjustable mount
- Carriage bolt mount

## APPROVALS

- UL 844
- UL 8750 LED safety
- UL 1598 wet locations
- UL 1598A and ABS marine locations
- IDA Dark Sky Approved
- cUL approved to CSA 22.2 No. 137,
   CSA 22.2 No. 250.0-08, CSA 22.2 No. 250.13
- IP66/67/68
   (IP68 only available with DC general location version)

## WARRANTY

5 year limited warranty

## T-code chart

T5	Class 1, Div 2, Groups A, B, C, D
T4A	Class II, Div. 2, Groups F, G

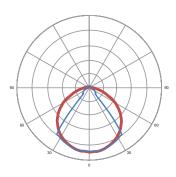
## **Electrical specifications**

Model		XLN121	XLN122	XLN123	XLN124
Power	12VDC	12W	21W	36W	48W
	24VDC	11W	21W	32W	42W
	120VAC	10W	20W	31W	41W
Current	12VDC	0.75A	1.5A	2.3A	3.0A
	24VDC	0.40A	0.75A	1.1A	1.5A
	120VAC	0.09A	0.17A	0.23A	0.34A



## PHOTOMETRY

## **Optic options**



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W – Wide 100°		
Model	Lumen output (CW)	
XLN121	586	
BUG rat	ing : B1-U0-G0	

1,172
1,758
2,289

BUG rating: B2-U0-G0

N – Narrow 30° (DC only)			
Model Lumen output (CW		1)	
XLN121	55	9	
BUG rat	ing : B2-U0-G0		
XLN122	1,11	8	
XLN123	1.67	7	

2,236

BUG rating: B3-U0-G0

XLN124

## MOUNTING OPTIONS

## A - Adjustable mounting bracket (standard)



## **B - Carriage bolt/surface mount** (optional)



## DIMENSIONS Dimensions are approximate and subject to change. 1.3" (34 mm) 2.2" (56 mm) **XLN121** 0.8 kg | 1.8 lbs 2.8" (71 mm) 14.5" (368 mm) 2.8" (71 mm) **XLN122** 1.2 kg | 2.6 lbs 2.8" (71 mm) 25.5" (648 mm) \_\_\_\_\_\_ \_¼" - M6 Clearance slot **XLN123** 1.8 kg | 3.9 lbs 37.5" (952 mm) 2.8" (71 mm) 36.5" (927 mm) .¼" - M6 Clearance slot **XLN124** 2.4 kg | 5.3 lbs 48.5" (1231 mm) 1.9" (49 mm) 2.8"-(71 mm) 47.5" (1206 mm) \_1/4" - M6 Clearance slot NUMBERING SYSTEM Lighting fixture C **XLN121** W BK 12 HLC Model Optic Finish Color Mount Power Location Market

## Ordering information

	Part	
Part	number	Description
1 Model	XLN121	559 to 586 lumens
	XLN122	1,118 to 1,172 lumens
	XLN123	1,677 to 1,758 lumens
	XLN124	2,236 to 2,289 lumens
2 Optic	W	Wide 100°
	N	Narrow 30° (DC version only)
3 Finish	BK	
4 Color	30	Warm white (3,000 K) <sup>1</sup>
	W	Warm white (3,500 K) <sup>1</sup>
	40	Natural white (4,000 K) <sup>1</sup>
	С	Cool white (5,000 K)

Dawk	Part	Danauimtiau
Part	number	Description
5 Mount	Α	Adjustable
	В	Carriage bolt <sup>2</sup>
6 Power	12	11–16VDC
	24	21–28VDC
	120	120VAC, 50/60Hz
<b>7</b> Location	HL	Hazardous location
	GL68	General location IP68 (Only available with DC versions)
8 Market	С	Canadian market
	Blank	US market

 $<sup>^2</sup>$  IDA Fixture Seal of Approval only applies to fixtures with a CCT of 3,000K or less, and have fixed mounts aiming the fixture perpendicular to the ground.

<sup>&</sup>lt;sup>1</sup>Option subject to extended lead time and minimum order quantities.

## **Accessories - Quick pole assembly**

## Key features and benefits



### **FEATURES AND BENEFITS**

- Sphere-shaped, quick knuckle features round edges, preventing injuries and contaminant build-up on components
- The quick-release mechanism is activated using one hand and one pull pin
- The quick pole assembly blocks at a 90° angle when the pull pin reaches the stopper
- All quick knuckle hardware is made of stainless steel
- Supplied standard with unique fixture hanging hook

## QUICK POLE ASSEMBLY

- Operates in any kind of weather
- Overall length is 10' (3 m)
- Galvanized pole trade size is 1-1/2" threaded NPT
- Aluminum pole trade size is 2" threaded NPT
- Top pole section is 70" (1.78 m) long
- Lower pole section is 50" (1.27 m) long
- Set screws secure top and bottom section into the guick knuckle

## QUICK KNUCKLE ASSEMBLY

- Rotates 180° (90° left and right) around knuckle's center axis, allowing freedom of installation and easy adjustment
- Easy one-man operation after center bolt is loosened, use the pull pin to lock and unlock the assembly
- · Pre-fished with tape to ease wiring

## BRACKETS

Universal mounting for 2" to 3" angle iron railings
 Contact your sales representative

## SAFETY FIRST

- One-person operation
- No ladders or lifts required
- Simplified maintenance
- Hot dipped galvanized steel and aluminum finishes
- Frees up catwalks and walkways during maintenance
- Suitable for 113 mph winds as per AASHTO LTS-4 2001
- Maximum fixture weight capacity of 50 lbs.
- Steel pole threads are treated and protected to prevent galvanic reaction as per AASHTO LTS-4 2001

**NOTE:** Please consult your local authority to confirm acceptability of the Quick pole installation in classified areas.



## Standard kit

- Overall height of 10' (3 m)
- 1½" NPT threads at both ends (1¾" O.D. pipe)
- Rotating quick knuckle assembly
- Installed with two rail angle iron mounting brackets, allowing the pole section to rotate before final positionning

Standard kit Q-P-5-10-EX (Galvanized steel 1%" O.D. pipe) Q-P-A-5-10-EX (Aluminum 2%" O.D. pipe)

**Note:** For Canadian market, please add "C" to the part no. (ex: AMB-QP-A-BKTC-EX).

Bracket sold separately



The quick pole assembly blocks at a 90° angle.



### Retrofit kit

- Overall maximum and predetermined height of 10' (3 m) once assembled
- Can be adapted to existing pole
- Upgrades existing assembly with quick and easy maintenance features
- See instruction sheets provided
   with product for installation details
- Rotating quick knuckle assembly
- Steel and aluminum adaptor sleeve (2" ID) fits over standard 1¼" NPT (1.66" OD) or 1½" NPT (1.90" OD) pipe

Retrofit kit RQ-P-5-10-EX (Galvanized steel 1%" O.D. pipe) RQ-P-A-5-10-EX (Aluminum 2%" O.D. pipe)

Customer existing pipe (not supplied)

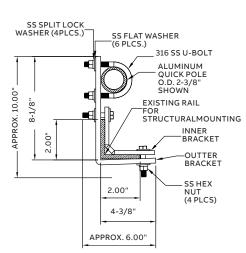
## Quick pole assembly

### UNIVERSAL BRACKET KIT

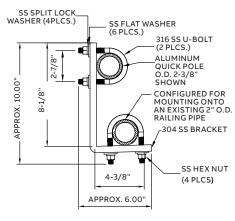
### Stainless steel (aluminum pole)

Note: For Canadian market, please add "C" to the part number (ex.: ANBQ-QP-BKTC-EX).

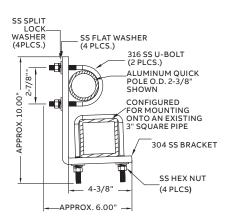
AMB-QP-A-BKT-EX
Bracket for structural angle mounting



## RMB-QP-A-BKT-EX Bracket for structural pole mounting



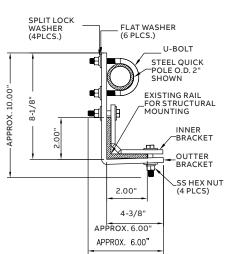
RMB-QP-A-BKT-EX
Bracket for structural square mounting



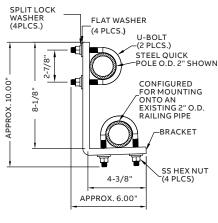
## Galvanised steel (galvanized pole)

Note: For Canadian market, please add "C" to the part number (ex.: AMB-QP-BKTC-EX)

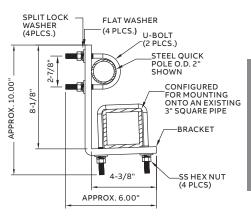
## AMB-QP-BKT-EX Bracket for structural angle mounting



## RMB-QP-BKT-EX Bracket for structural pole mounting



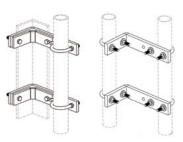
## RMB-QP-BKT-EX Bracket for structural square mounting





### Universal bracket kit

- Quick bolt-on installation, no welding or drilling
- Can be attached to angle iron quardrails up to 3"
- Supplied to be installed on tubular structures 2" O.D. or less but designed for up to 2-3/8" U-Bolt in both positions
- Allows the pole sections to rotate before final positionning





## **Table of contents**

## Emergency lighting products



## **Ex-Solutions™ XELB LED Series**

## Hazardous location battery unit



## Key features and benefits

## HOUSING

- Class I Division 2, Groups A, B, C and D
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Front and back plates are of a heavy-duty
   aluminum
- Stainless steel tamper-proof screws

## MOUNTING

- Surface wall mount only
- Includes mounting lugs on each side of the housing
- Universal J-box mounting
- 1/2 inch entry on both sides and top of housing
- Lamp type
- Choice of MR16 LED lamp wattages

## LAMP TYPE

• Choice of MR16 LED lamp wattages

## ELECTRONICS

- Pulse plus charger
- Low voltage disconnect
- Automatic brownout protection
- Battery lockout
- Fused output circuit
- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277VAC 60Hz

## **BATTERY TYPE**

• 6 or 12V lead-calcium battery

### APPROVALS

- CSA-US (to UL 924 Standard)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Temperature code T4 (for no lamp version only). Max temperature 275°F/135°C.
- Damp and wet location 10 to 40°C (50 to 104°F)

## WARRANTY

• Unit has a five year limited warranty

## CERTIFICATION

CLASS I Division 2

Group A, B, C, D

Contact your ABB sales representative to verify classification

## APPROVALS





**FEATURES** 

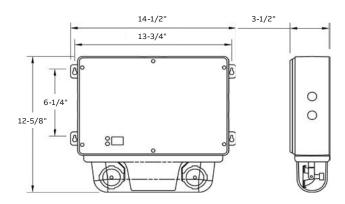




## Ex-Solutions™ XELB LED Series

## DIMENSIONS

Dimensions are approximate and subject to change.



## TEMPERATURE CODES

Lamp rating¹	Temperature code	Max. temperature	Replacement part #
6V-4W	T4A	248°F/120°C	580.0097-E
6V-5W	T4A	248°F/120°C	580.0122-E
12V-4W	T5	212°F/100°C	580.0080-E
12V-5W	T4A	248°F/120°C	580.0104-E
12V-6W	T4	275°F/135°C	580.0106-E

 $^{\mbox{\tiny 1}}\mbox{Use}$  qualified replacement lamps to avoid risk of over-heating

## EMERGENCY LIGHTING FIXTURE

Part	Part number	Description
1 Series	XELB0618	6V 18W lead-calcium
	XELB1236	12V 36W lead-calcium
	XELB1260	12V 60W lead-calcium
	XELB1272	12V 72W lead-calcium
2 Lamps	0	No heads, no lamp
	L1	2 x MR16 LED 6V 4W
	L2	2 x MR16 LED 6V 5W
	L7	2 x MR16 LED 12V 4W
	L9	2 x MR16 LED 12V 5W
	L10	2 x MR16 LED 12V 6W
3 Voltage	03	120/277VAC 60 HZ
4 Color	G	Gray housing
5 Charger type	Blank	Advanced Diagnostics non-audible
	NEXRF	Nexus <sup>®</sup> wireless
6 Options	Blank	No option
	-T3	Time delay 15 minutes

## **Ex-Solutions™ XELC LED Series**

## Hazardous location combination unit



## Key features and benefits

## CONSTRUCTION

- Fully gasketed housing frame
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Stainless steel tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

## MOUNTING

- Surface wall mount only
- Backplate features universal knockouts for a standard 4 inch junction box, and four mounting eyelets used in wall mount applications
- 1/2 inch conduit entry on top and sides

## LAMP TYPE

Choice of MR16 LED lamp wattages

## ELECTRONICS

- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277VAC 60Hz

## BATTERY TYPE

- XELC Model, nickel-cadmium battery, 6V-20W total battery capacity
- XELC12N Model, nickel-cadmium battery, 12V-24W total battery capacity

## **APPROVALS**

- CSA-US (to UL 924 Standard)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Damp and wet location 10 to 40°C (50 to 104°F)
- Temperature code T4 (for no lamp version only). Max temperature 275°F/135°C.
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

## WARRANTY

• Five year limited warranty

## CERTIFICATION

CLASS I Division 2

Group A, B, C, D

Contact your ABB sales representative to verify classification

APPROVALS

CERTIFIED

FOR U.S. ONLY



APPLICATIONS

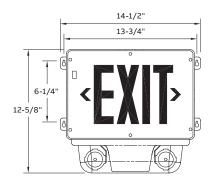




## **Ex-Solutions™ XELC LED Series**

## DIMENSIONS

Dimensions are approximate and subject to change.





## TEMPERATURE CODES

Lamp rating¹	Temperature code	Max. temperature	Replacement part #
6V-4W	T4A	248°F/120°C	580.0097-E
6V-5W	T4A	248°F/120°C	580.0122-E
12V-4W	T5	212°F/100°C	580.0080-E
12V-5W	T4A	248°F/120°C	580.0104-E
12V-6W	T4	275°F/135°C	580.0106-E

 $^{\mbox{\tiny 1}}\mbox{Use}$  qualified replacement lamps to avoid risk of over-heating

## EMERGENCY LIGHTING FIXTURE

Part	Part number	Description
1 Series/capacity	XELC	6V-20W, NICD
	XELC12N	12V-24W, NICD
2 LED	0	No heads, no lamp
	L1	2 x MR16 LED 6V 4W
	L2	2 x MR16 LED 6V 5W
	L7	2 x MR16 LED 12V 4W
	L9	2 x MR16 LED 12V 5W
	L10	2 x MR16 LED 12V 6W
3 Voltage	03	120/277VAC 60 HZ
4 Housing/face color	GG	Gray/gray
5 Legend color	R	Red legend
	G	Green legend
6 Diagnostics	Blank	Advanced Diagnostics non-audible
	NEXRF	Nexus <sup>®</sup> wireless

## **Ex-Solutions™ XELES LED Series**

## Hazardous location exit sign



## Key features and benefits

### HOUSING

- Fully gasketed housing frame
- Faceplate: heavy-duty, vandal-resistant polycarbonate
- Backplate: heavy-duty aluminum
- Stainless steel tamper-proof screws
- 6 inch EXIT lettering legend, available in red or green
- Field-selectable chevrons

## MOUNTING

- Surface mount
- Junction box included for wall, end or ceiling mount applications
- 1/2 inch conduit knock-out entry on top and sides

## ELECTRONICS

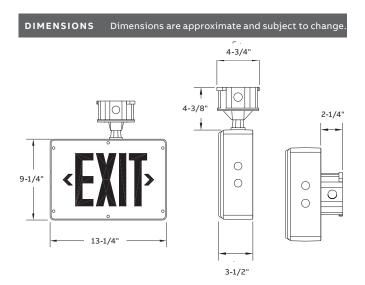
- Magnetic test switch
- Standard Advanced Diagnostics (non-audible)
- Optional Nexus® monitoring system
- 120/277VAC 60Hz

## APPROVALS

- CSA-US (to UL 924 Standard)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, and D
- NEC, OSHA and NEMA compliant for above Classes and Groups
- Temperature code T6 (Max. temperature 185°F/85°C)
- Damp and wet location 10 to 40°C (50 to 104°F)
- Meets NFPA101 (Life Safety Code), NFPA 70-NEC and OSHA illumination standards

## WARRANTY

• Five year limited warranty



## EXIT SIGN

Part	Part number	Description
1 Series	XELES	AC/DC (50° to 104°F Amb)
	XELESN	Self-powered (Ni-Cd) (50° to 104°F)
2 Face(s)	1	Single (ceiling/wall mount)
	2	Double (ceiling mount only)
3 Voltage	03	120/277VAC 60 Hz
4 Color of body/face	GG	Gray
5 Legend	R	Red
	G	Green
6 Diagnostic	Blank	AC/DC
	D	Advanced Diagnostics non-audible (self-powered)
	NEXRF	Nexus <sup>®</sup> wireless
7 Options	CW	Cold weather (-4° to 104°F Amb)¹

<sup>1</sup>Available with XELES only

## CERTIFICATION

## CLASS I Division 2 Group A, B, C, D

© UL844 © UL924

I R111065



**APPROVALS** 

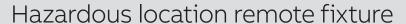




Contact your ABB sales representative to verify classification

# **EMERGENCY LIGHTING**

# **Ex-Solutions™ XELR LED Series**





# Key features and benefits

### DESCRIPTION

- Available with single or double lamp heads
- Die-cast aluminum back plate with gasket
- Vandal-resistant UV stabilized polycarbonate lamp cover
- Comes standard with tamper-proof screws and bit
- Universal J-box mounting
- Extreme operational temperature range: 10 to 40°C (50 to 104°F)

### MOUNTING

- Surface mount
- Conduit entry 1/2" NPT

# APPROVALS

- CSA-US (to UL 924 Standard)
- Evaluated to the UL 844 Standard for Class I Division 2, Groups A, B, C and D

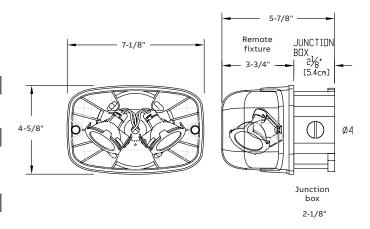
# WARRANTY

• Five year limited warranty

# LAMP SELECTION CHART AND TEMPERATURE CODE

Lamp suffix	Voltage	Watt.	Lumens	Replacement #	Temp. code	Max temp.
L1	6	4	200	580.0097-E	T4A	248°F/120°C
L2	6	5	415	580.0122-E	T4A	248°F/120°C
L7	12	4	220	580.0093-E	T5	212°F/100°C
L9	12	5	340	580.0104-E	T4A	248°F/120°C
L10	12	6	540	580.0106-E	T4	275°F/135°C

# **DIMENSIONS** Dimensions are approximate and subject to change.



# REMOTE FIXTURE

Part	Part number	Description
1 Series	XELR	Single C1D2
	XELRD	Double C1D2
2 LED	L1	6V 4W, MR16 LED
	L2	6V 5W, MR16 LED
	L7	12V 4W, MR16 LED
	L9	12V 5W, MR16 LED
	L10	12V 6W, MR16 LED
3 Color	G	Gray

## CERTIFICATION

# CLASS I Division 2 Group A, B, C, D

UL844 UL924 US LR111065



**APPROVALS** 

APPLICATIONS



# Hazardous location battery unit



## Key features and benefits

Includes the addition of Class II Div 1&2 Groups E, F and G as well as Class III ratings

Certified Class I Zone 2, Groups IIA, IIB and IIC

Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M1981

Certified temperature codes for several types of emergency lamps
Suited for areas with the risk of flammable gases, vapors or liquids that
can create an explosive atmosphere

Heavy-duty 1/8" thick aluminum back plate with keyholes for secure wall-mount installation

Two LED lamps, shielded by a cast aluminum housing and a polycarbonate cover

6W LED emergency lights provide 100 ft of egress illumination on a 6-foot wide path

Sealed, maintenance-free, lead-calcium batteries with up to 150W emergency power

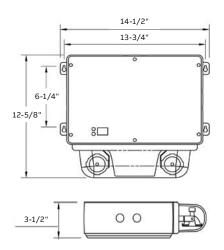
Built-in microcontroller-based battery charger and auto-diagnostics circuitry

 $1/2\mbox{\ensuremath{"}}$  electrical conduit entry on both sides and at the top

Auto-testing capabilities (specific load requirements)

Meets or exceeds CSA C22.2 No.141-15

**DIMENSIONS** Dimensions are approximate and subject to change



Consult with your local representative for ordering emergency lighting products. See our full offering at: https://www.tnb.ca/en/products/emergency-lighting

## CERTIFICATION

CLASS I	
Division 2	Group A, B, C, D
CLASS II	
Division 1 & 2	Group E, F, G
CLASS III	

# APPROVALS





Contact your ABB sales representative to verify classification

# **EMERGENCY LIGHTING**

# Hazardous location remote fixture



# Key features and benefits

Quality illumination requires fewer fixtures

Certified Class I Zone 2, Groups IIA, IIB and IIC

Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2 No.137-M1981

Temperature codes: T4, T4A and T5 as per Canadian Electrical Code, Part I and CSA C22.2 No.137-M1981)

Extreme operational temperature range: -40°C (-40°F)

Choice of single- or double-lamp models

High efficacy LED lamps of 4W, 5W and 6W  $\,$ 

Input voltage: 6V, 12V, 24V or 120V

Fully gasketed die-cast aluminum back plate

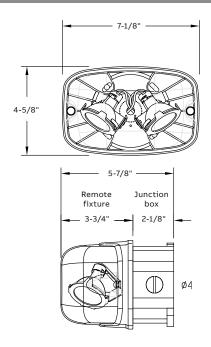
Clear polycarbonate cover, UV and impact resistant

Easy installation on a 4-inch octagonal box (included)

Comes standard with tamper-proof screws and bit

Certified to CSA 22.2 No.141-15

**DIMENSIONS** Dimensions are approximate and subject to change



Consult with your local representative for ordering emergency lighting products. See our full offering at: https://www.tnb.ca/en/products/emergency-lighting

# CERTIFICATION

CLASS I	
Division 2	Group A, B, C, D
CLASS II	
Division 1 & 2	Group E, F, G
CLASS III	

# Contact your ABB sales representative to verify classification

# APPROVALS





# Hazardous location pictogram sign



## Key features and benefits

Includes the addition of Class II Div 1&2 Groups E, F and G as well as Class III ratings

Certified Class I Zone 2, Groups IIA, IIB and IIC

Certified Class I Division 2, Groups A, B, C and D as per CSA C22.2

Certified temperature codes for several types of emergency lamps Suited for areas with the risk of flammable gases, vapors or liquids that can create an explosive atmosphere

Heavy-duty 1/8" thick aluminum back plate with keyholes for secure wall-mount installation

Two LED lamps, shielded by a cast aluminum housing and a polycarbonate cover

6W LED emergency lights provide 100 ft of egress illumination on a 6-foot wide path

Sealed, maintenance-free, lead-calcium batteries with up to 150W emergency power  $\,$ 

Built-in microcontroller-based battery charger and auto-diagnostics circuitry

1/2" electrical conduit entry on both sides and at the top

Auto-testing capabilities (specific load requirements)

Meets or exceeds CSA C22.2 No.141-15

**DIMENSIONS** Dimensions are approximate and subject to change

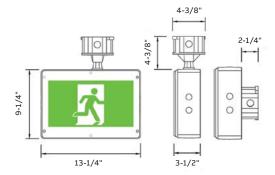






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Consult with your local representative for ordering emergency lighting products. See our full offering at: https://www.tnb.ca/en/products/emergency-lighting

## CERTIFICATION

# CLASS I Division 2 Group A, B, C, D CLASS II Division 1 & 2 Group E, F, G CLASS III

# APPROVALS





# EMERGENCY LIGHTING

# Hazardous location combo pictogram



## Key features and benefits

Certified Class I Division 2, Groups A, B, C and D as per CSA C22 .2 No. 137-M1981

Includes the addition of Class II Div 1&2 Groups E, F and G as well as Class III ratings

Certified temperature codes for several types of emergency lamps

Polyvinyl chloride frame, with built-in gasket to prevent water infiltration

Heavy-duty 1/8-inch thick aluminum back plate with key-holes for wall-mount installation

 ${\bf Sealed, polycarbonate\ vandal-resistant\ face plate}$ 

Legend illuminated by long-life white LEDs is warrantied for 10 years  $\,$ 

Comes standard with two pictogram films for direction selection

Two LED lamps shielded by a clear polycarbonate cover

Sealed, maintenance-free lead-calcium or nickel-cadmium batteries

Comes standard with auto-test,  ${\bf non-audible}$ 

Remote load capacity: covers with LED lights 200 ft up to 500 ft of egress illumination

Cold-weather option: -40°C (-40°F) with only 14W extra power consumption

Auto-testing capabilities (specific load requirements)

Meets or exceeds CSA C22 .2 No .141-15

DIMENSIONS

Dimensions are approximate and subject to change.



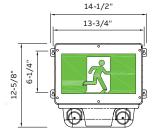




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Consult with your local representative for ordering emergency lighting products. See our full offering at: https://www.tnb.ca/en/products/emergency-lighting

### CERTIFICATION

CLASS I	
Division 2	Group A, B, C, D
CLASS II	
Division 1 & 2	Group E, F, G
CLASS III	



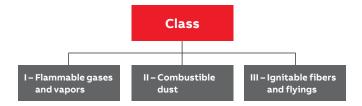
# APPROVALS



# **Hazardous locations**

# Classification

Areas where the possibility of explosion and fire is created by the presence of flammable gases, vapors, liquids, dust, fibers or flyings.



# Class I - Gases, vapors or liquids

Class I locations are those in which flammable gases, flammable liquid-produced vapors or combustible liquid-produced vapors are or may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.

### Typical class I locations

Petroleum refineries and gasoline storage and dispensing areas Industrial firms that use flammable liquids in dip tanks for parts cleaning or other operations

Petrochemical companies that manufacture chemicals from gas and oil

Dry cleaning plants where vapors from cleaning fluids can be present Companies that have spraying areas where they coat products with paint or plastics

Aircraft hangars and fuel serving areas

Utility gas plants and operations involving storage and handling of liquified petroleum gas or natural gas

# Class II - Combustible dusts

Class II locations are those that are hazardous because of the presence of combustible dust.

# Typical class II locations

Grain elevators, flour and feed mills

Plants that manufacture, use or store magnesium or aluminum powders Plants that have chemical or metallurgical processes: producers of plastics, medicines and fireworks, etc.

Producers of starch or candies

Spice-grinding plants, sugar plants and cocoa plants

Coal preparation plants and other carbon handling or processing areas

# Class III - Fibers and flyings

Class III locations are those that are hazardous because of the presence of easily ignitable fibers or where materials producing combustible flyings are handled, manufactured or used, but in which such fibers/flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.

# Typical class III locations

Textile mills, cotton gins, cotton seed mills and flax processing plants Any plant that shapes, pulverizes or cuts wood and creates sawdust or flyings

Fibers and flyings are not likely to be suspended in the air but can collect around machinery or on lighting fixtures and where heat, a spark or hot metal can ignite them.

# Division 1 - Normally hazardous

Hazardous gases, vapors or dusts are present under normal operation conditions or during frequent repair and maintenance activity.

## Division 2 - Not normally hazardous

Hazardous gases, vapors or dusts are not present under normal operating conditions.

	Area classification   Divisions versus zones							
Hazard under abnormal conditions	Intermittent hazard	Continuous hazard						
Zone 2	Zone 1	Zone 0						
Division 2	Division 1							

These are simplified definitions. Complete data is in the U.S. National Electrical Code (NEC) and the Canadian Electrical Code (CEC).

## Groups A, B, C, D

The gases and vapors of Class I locations are broken into four groups by the code A, B, C and D. These materials are grouped according to the ignition temperature of the substance, its explosion pressure and other flammable characteristics.

# **Groups E, F, G**

Class II dust locations groups E, F and G are classified according to the ignition temperature and the conductivity of the hazardous substance.

# **Hazardous locations**

# Zone classification

# **Zone system**

Hazardous locations per the Zone system are classified according to its Zone which can be gas or dust. For gas atmospheres electrical equipment is further divided into Groups and Subgroups.

**Zone** – The Zone defines the probability of the hazardous material, gas or dust, being present in sufficient quantities to produce explosive or ignitable mixtures.

## 1. Gas

- a. Zone 0 Ignitable concentrations of flammable gases or vapors which are present continuously or for long periods of time.
- b. Zone 1 Ignitable concentrations of flammable gases or vapors which are likely to occur under normal operating conditions.
- c. Zone 2 Ignitable concentrations of flammable gases or vapors which are not likely to occur under normal operating conditions and do so only for a short period of time.

# 2. Dust

- a. Zone 20 An area where combustible dusts or ignitable fibers and flyings are present continuously or for long periods of time.
- b. Zone 21 An area where combustible dusts or ignitable fibers and flyings are likely to occur under normal operating conditions.
- c. Zone 22 An area where combustible dusts or ignitable fibers and flyings are not likely to occur under normal operating conditions and do so only for a short period of time.

## Comparison between Zones and Classes/Divisions

Standards	NEC 505	NEC 500		
Atmosphere				
Gases, vapors	Zone 0	Class I, Div. 1		
	Zone 1			
	Zone 2	Class I, Div. 2		
Dusts	Zone 20	Class II, Div. 1		
	Zone 21			
	Zone 22	Class II, Div. 2		

# Group

Electrical equipment is divided into three groups:

**Group I** – Equipment intended for use in mines susceptible to firedamp (flammable mixture of gases naturally occurring in a mine).

**Group II** – Equipment intended for use in places with an explosive gas atmosphere other than mines susceptible to firedamp. Group II equipment is subdivided into three subgroups.

- **Group IIA** Atmospheres containing propane, or gases and vapors of equivalent hazard.
- Group IIB Atmospheres containing ethylene, or gases and vapors of equivalent hazard.
- Group IIC Atmospheres containing acetylene or hydrogen, or gases and vapors of equivalent hazard.

**Group III** – Equipment intended for use in places with an explosive dust atmosphere. Group III equipment is subdivided into three subgroups.

- **Group IIIA** Atmospheres containing combustible flyings
- Group IIIB Atmospheres containing non-conductive dust.
- Group IIIC Atmospheres containing conductive dust.

## Zone system: Gas groups

Gas groups	Representative gas
IIA	Propane
IIB	Ethylene
IIB H <sub>2</sub>	Hydrogen
IIC	Acetylene

### Zone system: Dust groups

Dust groups	Dust type
IIIC	Combustible and conductive dust (metal dusts)
IIIB	Combustible and non-conductive (not metal) dust
IIIA	Combustible flyings

# **Ignition temperatures**

# Group classifications

Ignition temperatures and group classifications for flammable gases and vapors

		Autoignition temperature				Autoignition temperature	
Material	Group	°F	°C	Material	Group	°F	°C
Acetaldehyde	С	347	175	Di-N-Propylamine	c	570	299
Acetic acid	D	867	464	Diacetone alcohol	D	1,118	603
Acetic anhydride	D	600	316	O-Dichlorobenzene	D	1,198	647
Acetone	D	869	465	1.1-Dichloroethane	D	820	438
Acetone cyanohydrin	D	1,270	688	1.2-Dichloroethylene	D	860	460
Acetonitrile	D	975	524	Dicyclopentadiene	С	937	503
Acetylene	А	581	305	Diethyl benzene	D	743-842	395-450
Acrolein (inhibited)	B (c)	455	285	Diethyl ether	С	320	160
Acrylic acid	D	820	438	Diethylamine	С	594	312
Acrylonitrile	D	898	481	Diethylene glycol monobutyl ether	С	442	228
Allyl alcohol	С	713	378	Diethylene glycol monomethyl ether	С	465	241
Allyl chloride	D	905	485	N-N-Dimethyl aniline	С	700	371
Alpha-methyl styrene	D	1,066	574	Dimethyl formamide	D	833	455
Ammonia	D	928	498	Dimethyl sulfate	D	370	188
N-Amyl acetate	D	680	360	Dimethylamine	С	752	400
Aniline	D	1,139	615	1,4-Dioxane	С	356	180
Benzene	D	928	498	Dipentene	D	458	237
Benzyl chloride	D	1,085	1,085	Dodecene	D	491	255
1.3-Butadiene	B (d)	788	420	Diisopropylamine	С	600	316
Butane	D	550	288	Epichlorohydrin	С	772	411
1-Butanol	D	650	343	Ethane	D	882	472
2-Butanol	D	761	405	Ethanol	D	685	363
N-Butyl acetate	D	790	421	Ethyl acetate	D	800	427
N-Butyl acrylate (inhibited)	D	559	293	Ethyl acetate (inhibited)	D	702	372
Butylamine	D	594	312	Ethyl benzene	D	810	432
Butylene	D	725	385	Ethyl chloride	D		519
N-Butyraldehyde	С	425	218	Ethyl formate	D	851	455
N-Butyric acid	D	830	443	2-Ethyl hexanol	D	448	231
Carbon disulfide	*	194	90	2-Ethyl hexyl acrylate	D	485	252
Carbon monoxide	С	1,128	609	Ethyl mercaptan	С	572	300
Chlorobenzene	D	1,099	593	Ethylamine	D	725	385
Cresol	D	1,038-1,110	559-599	Ethylene	С	842	450
Crotonaldehyde	С	450	232	Ethylene chlorohydrin	D	797	425
Cumene	D	795	424	Ethylene dichloride	D		413
Cyclohexane	D	473	245	Ethylene glycol monobutyl ether	С	460	238
Cyclohexanol	D	572	300	Ethylene glycol monobutyl ether acetate	С	645	340
Cyclohexanone	D	473	245	Ethylene glycol monoethyl ether	С	455	235
Cyclohexene	D	471	244	Ethylene glycol monoethyl ether acetate	С	715	379
Cyclopropane	D	938	503	Ethylene glycol monomethyl ether	D	545	285
P-Cymene	D	817	436	Etheylene oxide	B (C)	804	429
N-Decanol	D	550	288	Ethylenediamine	D		385
Decene	D	455	235	Ethylenimine	С	608	320
Di-Isobutyl ketone	D	745	396	2-Ethylehexaldehyde	С		191
Di-Isobutylene	D	736	391	Formaldehyde (gas)	В	795	429

 $<sup>{}^{\</sup>star}\text{Carbon disulfide has characteristics which require safeguards beyond those required for any of the above groups}$ 

# Ignition temperatures

# Group classifications

Ignition temperatures and group classifications for flammable gases and vapors

	<b>Autoignition temperature</b>				A	utoignition te	mperature
Material	Group	°F	°C	Material	Group	°F	°C
Fuel oils	D	410-765	210-407	Monoethanolamine	D	770	410
Furfural	С	600	316	Monoisopropanolamine	D	705	374
Furfuryl alcohol	С	915	490	Monomethyl aniline	С	900	48
Gasoline	D	536-880	280-471	Monomethyl hydrazine	С	382	19
Heptane	D	399	204	Morpholine	С	590	31
Heptene	D	500	260	Naphtha (coal tar)	D	531	27
Hexane	D	437	225	Naphtha (petroleum)	D	550	28
2-Hexanone	D	795	424	Nitrobenzene	D	900	48
Hexenes	D	473	245	Nitroethane	С	778	41
Hydrazine	С	74-518	23-270	Nitromethane	С	785	418
Hydrogen	В	968	520	2-Nitropropane	С	802	428
Hydrogen cyanide	С	1,000	538	1-Nitropropane	С	789	42:
Hydrogen sulfide	С	500	260	Nonane	D	401	20
Iso-Butyl acetate	D	790	421	Octane	D	403	20
Iso-Octyl aldehyde	С	387	197	Octene	D	446	23
Isoamyl acetate	D	680	360	Pentane	D	470	24:
Isoamyl alcohol	D	662	350	1-Pentanol	D	572	300
Isobutyl acrylate	D	800	427	2-Pentanone	D	846	45
Isobutyraldehyde	С	385	196	1-Pentene	D	527	27
Isophorone	D	860	460	Propane	D	842	45
Isoprene	D	428	220	2-Propanol	D	750	399
Isopropyl acetate	D	860	460	1-Propanol	D	775	41
Isopropyl ether	D	830	443	Propionaldehyde	С	405	20
Isopropylamine	D	756	402	Proprionic acid	D	870	46
Kerosene	D	410	210	Proprionic anhydride	D	545	28
Liquified petroleum gas	D	761-842	405-450	N-Propyl acetate	D	842	450
Mesityl oxide	D	652	344	N-Propyl ether	С	419	21
Methane	D	999	537	Propyl nitrate	В	347	175
Methanol	D	725	385	Propylene	D	851	45
Methyl acetate	D	850	454	Propylene dichloride	D	1,035	53
Methyl acrylate	D	875	468	Propylene oxide	B (C)	840	449
Methyl ether	С	662	350	Pyridine	D	900	48
Methyl ethyl ketone	D	759	404	Styrene	D	914	490
Methyl formal	С	460	238	Tetrahydrofuran	С	610	32
Methyl formate	D	840	449	Tetrahydronapthalene	D	725	38
Methyl isobutyl ketone	D	840	449	Toluene	D	896	480
Methyl isocyanate	D	994	534	Turpentine	D	488	25
Methyl methacrylate	D	792	422	Unsymmetrical dimethyl hydrazine (UDMH)	С	480	249
Methyl N-Amyl ketone	D	740	393	Valeraldehyde	С	432	22
2-Methyl-1-Propanol	D	780	416	Vinyl acetate	D	756	40
2-Methyl-2-Propanol	D	892	478	Vinyl chloride	D	882	47
Methylamine	D	806	430	Vinyl toluene	D	921	49
Methylcyclohexane	D	482	250	Vinylidene chloride	D	1,058	570
Methylcyclohexanol	D	565	296	Xylenes	D	867-984	464-529





# ABB Electrification Canada Inc.

Electrification Products





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