
ABB-EX SOLUTIONS™ LIGHTING — HIGH BAY AND LOW BAY

We deliver highly versatile high and low bay solutions to a wide range of industries, with the protection and safety of human life being paramount.



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High and low bay products



014–025 XSL3 LED Series



026–033 XSL5 HID Series



034–039 XSL11 LED Series

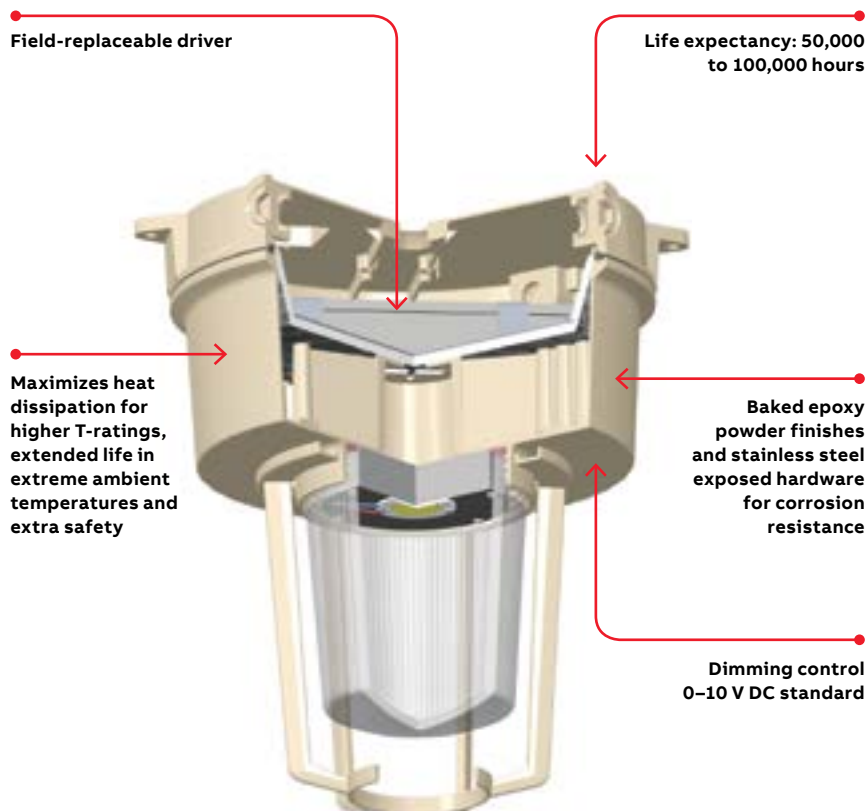


040–043 XSL10 LED Series

XSL3

LED Series

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



Light output from 5,600 up to 20,100 lumens



LED uses 75% less energy than HID, and 90% less energy than incandescent

CERTIFICATIONS AND RATINGS



Not all XSL3 series are DLC qualified. For all qualified products, please visit: www.designlights.org/qpl



UL844
UL1598
UL8750

CLASSIFICATION

CLASS I	
Division 2	Groups A, B, C, D
Zone 2	Groups IIC, IIB, IIA
CLASS II	
Division 1*	Groups E, F, G*
Division 2	Groups F, G
CLASS III	

*Contact your ABB sales representative to verify classification

Applications

High mast	Inspection
Parking lots	Storage facilities
Tunnels	Quality control areas
Swimming pools	Packaging areas
High bay	Hangars
Coolers and freezers	Oil and gas processing
Agricultural	
Chemical/industrial facilities	

XSL3 LED Series

Key features and benefits

Hinged design for hands-free wiring

Easy tank access allows ABB lighting fixtures to be maintained quickly and safely. The hinged lid is designed to support the weight of the tank, leaving both the installer's hands free.

Robust construction

Cast copper-free aluminum construction offers corrosion resistance in a strong and durable fixture. Baked epoxy powder finishes and stainless steel exposed hardware provide additional corrosion resistance.

Field-replaceable driver

The driver is designed in its own compartment so it can be easily replaced in the field.

Impressive life expectancy

Life expectancy of 50,000 to 100,000 hours.

Color temperature

Standard color temperature is 5000 K. Other color temperatures available.

Color rendering index

Superior CRI (70).

Certifications

Easily identifiable nameplate displays third-party certification for all electrical and hazardous location ratings as required by the National Electrical Code, Canadian Electrical Code and OSHA regulations to provide peace of mind, confirming that the correct lighting fixture with the required certifications is in place.

Versatile optics include internal reflector options for light distribution

The XSL3 LED Series fixture is available with a thermal-resistant globe and a variety of internal reflectors with 35°, 45° and 65° beam angles.

6 kV combi-wave surge rating

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

Combi-wave surge rating

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

High efficacy luminaire

Model	AC power (W)	Lumens	Lm/W
XSL3005	37	5,600	151
XSL3007	48	7,500	156
XSL3010	74	10,500	142
XSL3015	103	15,800	153
XSL3017	115	17,300	150
XSL3020	138	20,100	146

Improved temperature codes

With an exclusive design that maximizes heat dissipation, ABB LED fixtures' lower internal temperature allows for higher T-rating and extended LED and driver life in extreme ambient temperatures. With the entire luminaire acting as a heat sink, ABB LED fixtures allow for better performance.

Temperature codes

	Class I Zone 2 Groups IIC, IIB, IIA	Class I Division 2 Groups A, B, C, D	Class II Groups E, F, G	Simultaneous Class I Division 2 and Class II
Glass globe XSL3005, XSL3007, XSL3010				
Ambient temp. 40°C	T5	T5	T6	T5
Ambient temp. 55°C	T4	T4A	T6	T4A
Glass globe XSL3005, XSL3007, XSL3010 with internal reflector I3, I4, I6				
Ambient temp. 40°C	T4	T4A	T6	T4A
Glass globe XSL3015, XSL3017, XSL3020				
Ambient temp. 40°C	T4	T4A	T4A	T4A
Optic type cut XSL3005, XSL3007, XSL3010				
Ambient temp. 40°C	T5	T5	T5*	T5*
Ambient temp. 55°C	T4	T4A	T4A*	T4A*
Optic type cut XSL3015, XSL3017, XSL3020				
Ambient temp. 40°C	T4	T4A	T4A*	T4A*

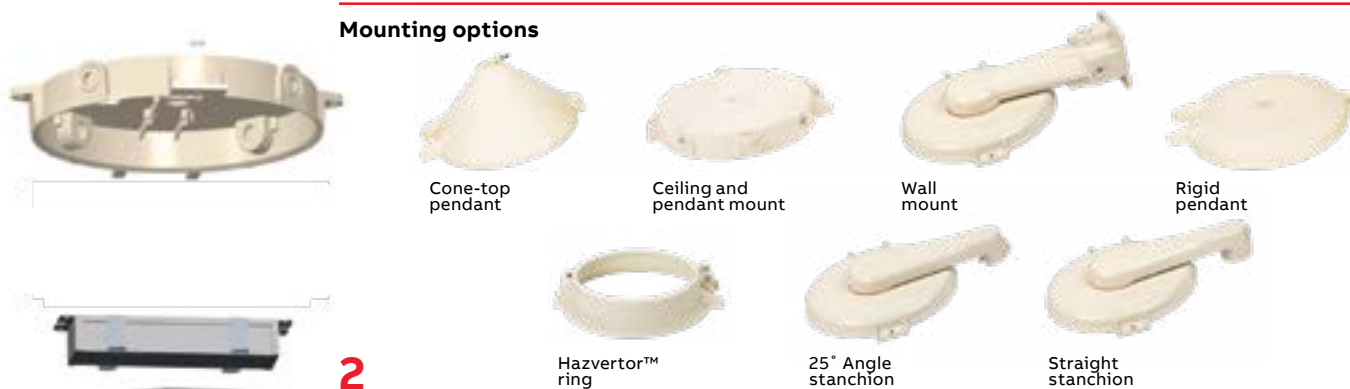
*Cut reflector: Class II, Division 2, Groups F, G

XSL3 LED Series

Fixture assembly guide

1

Mounting options



2

LED driver tank



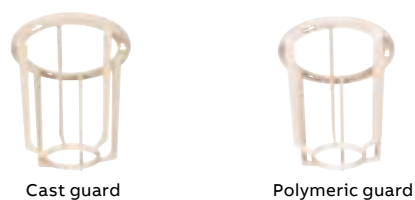
3

Globe or reflector



4

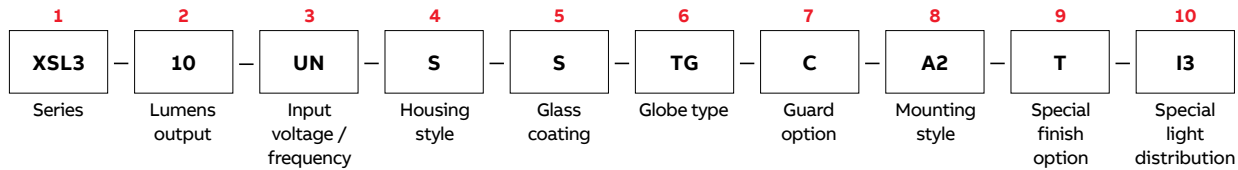
Guard (n/a for CUT)



XSL3 LED Series

Numbering system

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



LED driver tank

Part	Part number	Description
1 Series	XSL3	Standard light 3 series
2 Lumens output (max. AC power)	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 Input voltage / frequency	UN	120-277Vac, 50/60 Hz
	UN2	347-480 Vac, 50/60 Hz
4 Housing style	Blank	Standard
	S	With stainless steel insert

Optics

Part	Part number	Description
5 Glass coating	S ¹	Teflon coating ¹
6 Globe type	TG	Thermal shock resistant globe
	R1	Glass refractor, Type I
	R3	Glass refractor, Type III
	R5	Glass refractor, Type V
	CBDL	Low-bay refractor polycarbonate ²
	CUT	Cut-off reflector, polycarbonate lens ²
7 Guard option (glass globe only)	Blank	No guard
	C	Cast guard
	L	Polymeric guard

¹ For Teflon coating, add prefix "S" before the first digit (Ex: SR1)

Not applicable to CUT.

CUT optics: 3000K < CCT. Cannot be used with 25° stanchion mount.

² Not suitable for Class II, Division 1

Mounting

Part	Part number	Description
8 Mounting style	Blank	No mounting
	A2	¾" Cone top pendant
	A3	1" Cone top pendant
	B2	¾" Wall mount
	B3	1" Wall mount
	C2	¾" Ceiling and pendant mount
	C3	1" Ceiling and pendant mount
	HV3	Hazvector™ Crouse-Hinds® straight stanchion ²
	HV4	Hazvector™ Crouse-Hinds® angle stanchion ²
	HV5	Hazvector™ Crouse-Hinds® wall mount ²
	L4	1¼" Straight stanchion ¹
	L5	1½" Straight stanchion ¹
	P2	¾" Rigid pendant
	P3	1" Rigid pendant
	S4	1¼" 25° Angle stanchion
	S5	1½" 25° Angle stanchion

¹ Not suitable for CUT or CBDL globe type

² cCSAus certification

Options

Part	Part number	Description
9 Special finish option	Blank	Standard ivory
	T	Hazcote® custom corrosion coating
10 Special light distribution	Blank	Standard no reflector
	I3	Internal reflector 35° beam angle ¹
	I4	Internal reflector 40° beam angle ¹
	I6	Internal reflector 60° beam angle ¹
	K	Special Kelvin color temperature
11 Certification	Blank	U.S market

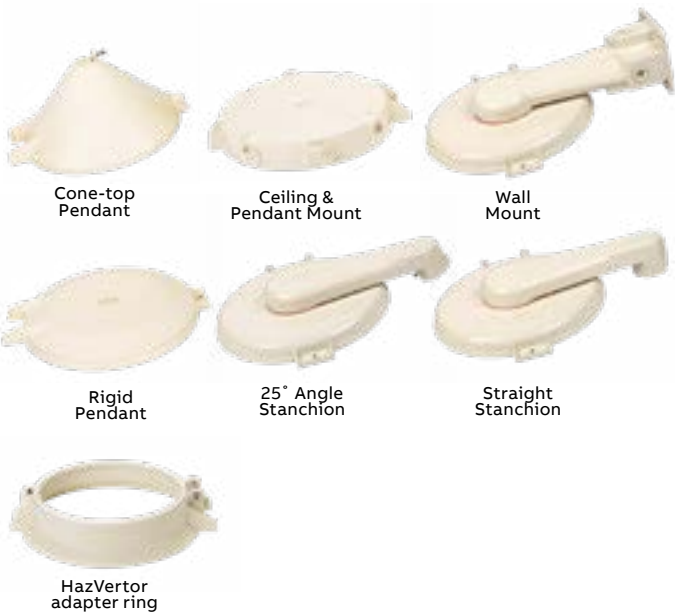
¹ XSL305, XSL307 and XSL310 only, 40°C (104 °F) maximum operating temperature

XSL3

Individual components

Mounting options¹

Part number	Description	Conduit hub size (in.)
VA2	Cone-top pendant	$\frac{3}{4}$
VA3		1
VC2	Ceiling and pendant mount	$\frac{3}{4}$
VC3		1
VB2-VIB	Wall mount	$\frac{3}{4}$
VB3-VIB		1
P2	Rigid pendant	$\frac{3}{4}$
P3		1
VS4-VIB	25° Angle stanchion	$1\frac{1}{4}$
VS5-VIB		$1\frac{1}{2}$
VL4-VIB	Straight stanchion	$1\frac{1}{4}$
VL5-VIB		$1\frac{1}{2}$
HV3 ²	Hazvertor™ adapter ring ceiling, pendant ² and straight stanchion top hats (APM2, APM3, CM2, CM3, PM5, and QM25) ²	-
HV4 ²	Hazvertor™ adapter ring stanchion angle mount (JM5 style) ²	-
HV5 ²	Hazvertor™ adapter ring wall mount (TWM2 and TWM3 styles) ²	-



¹ For stainless steel inserts, please add "SI" to part no. (ex:VA2SI)

² HV3, HV4 and HV5 Hazvertors are CSA/CSAus certified and intended for use with Crouse-Hinds® top hats indicated. They are not compatible with HPM2 top hats.

Crouse-Hinds® is a registered trademark of Cooper Technologies Company.

Globes or refractors

Part number	Description
VGT15	Heat-Resistant Prismatic Glass Globe
VGL15R1	IES Type I Refractor Globe
VGL15R3	IES Type III Refractor Globe
VGL15R5	IES Type V Refractor Globe
CUT	Dark Sky Cut-Off Reflector with Polycarbonate Flat Lens



Guards

Part number	Description
VGU22	Cast Guard
VGU22P	Polymeric Guard



Reflectors

Part number	Description
VR15P	Standard dome, fiberglass-reinforced polyester
VRA15P	30° Angle reflector, fiberglass-reinforced polyester

Reflectors are shipped bulk unless specified.



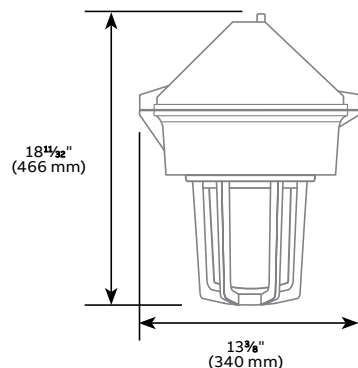
LED drivers

Part number	Driver
XSL305	183.0024-005
XSL307	183.0024-007
XSL310	183.0024-010
XSL315	183.0026-015
XSL317	183.0026-017
XSL320	183.0026-020

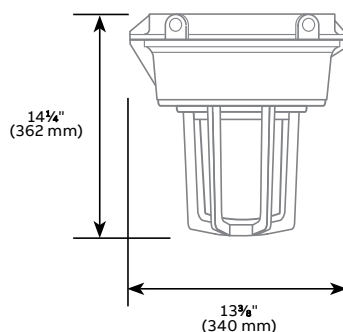
XSL3 LED Series

Dimensions – Housing with mounting top, globe and guard

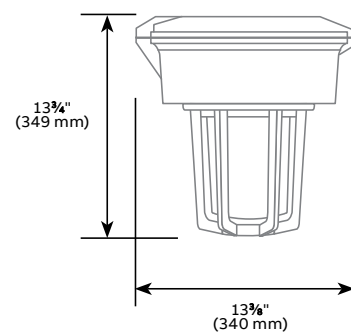
Cone-top pendant



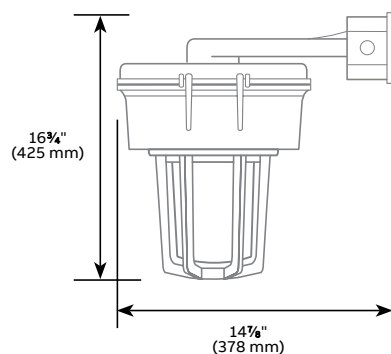
Ceiling and pendant mount



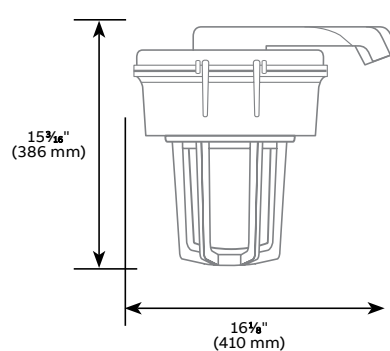
Rigid pendant mount



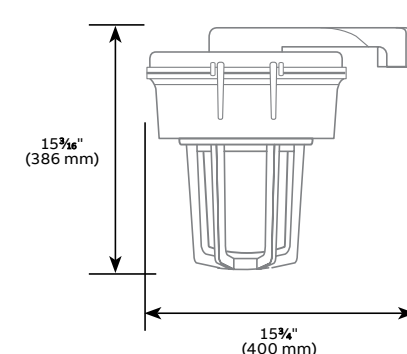
Wall mount



25° Angle stanchion



Straight stanchion



Design Lights Consortium (DLC): summary of test results

Electrical, 120-277 VAC

Model	Power (W)	Power factor	THD
XSL3005	37.7	0.91	13.5%
XSL3007	49.4	0.94	13.3%
XSL3010	71.9	0.97	10.1%
XSL3015	103.0	0.97	11.0%
XSL3017	115	0.97	11.8%
XSL3020	137	0.97	12.3%

Electrical, 347 VAC

Model	Power (W)	Power factor	THD
XSL3005	36.7	0.98	10.2%
XSL3007	47.9	0.99	8.3%
XSL3010	70.2	0.99	7.1%
XSL3015	104.9	0.99	7.6%
XSL3017	116.7	0.99	7.1%
XSL3020	141.2	0.99	7.8%

Photometry, 120-277 VAC

TG globe	
Lumens	Lm/W
5,747	155.3
7,607	156.6
10,706	147.8
16,063	155
17,549	151.7
20,468	147.2

Photometry, 347 VAC

TG globe	
Lumens	Lm/W
-	-
-	-
10,582	147.7
-	-
-	-
21,284	149.6

Photometry, 120-277 VAC

CUT reflector	
Lumens	Lm/W
5,237	141.5
6,832	140.8
9,814	135.4
14,564	140.7
16,140	139.7
18,782	135.3

Photometry, 347 VAC

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 120 V, 277 V and 347 V

Hazvector™ compatibility



01



02



03

01 HazVector™ adaptor ring, model HV3

02 HazVector™ adaptor ring, angle machining, model HV4

03 HazVector™ adaptor ring, wall mount machining, model HV5

The HazVector™ adaptor ring is designed to quickly convert most Crouse-Hinds fixtures to XSL3 LED Series.

Mounting	Crouse-Hinds model	Crouse-Hinds part number	HazVector™ model
Pendant	APM2 3/4 in.	APM2	HV3
	APM3 1 in.		HV3
Ceiling	CM2 3/4 in.	CM2	HV3
	CM3 1 in.		HV3
Wall	TWM2 3/4 in.	TWM2	HV5
	TWM3 1 in.		HV5
Stanchion	JM5 1-1/2 in.	JM5	HV4
	PM5 1-1/2 in.		HV3
Quad mount	QM25 3/4 in.	QM25	HV3



Refractor types

Type I

The type I distribution is great for lighting walkways, paths and sidewalks. This type of lighting is meant to be placed near the center of the pathway. This provides adequate lighting for smaller pathways.

Type I is a two-way lateral distribution having a preferred lateral width of 15 degrees in the cone of maximum candlepower. The two principal light concentrations are in opposite directions along a roadway. This type is generally applicable to a luminaire location near the center of a roadway where the mounting height is approximately equal to the roadway width.



Type II

The type II distribution is used for wide walkways, on ramps and entrance roadways, as well as other long, narrow lighting. This type is meant for lighting larger areas and usually is located near the roadside. You'll find this type of lighting mostly on smaller side streets or jogging paths.

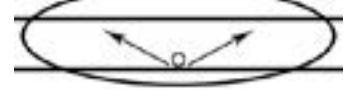
Type II light distributions have a preferred lateral width of 25 degrees. They are generally applicable to luminaires located at or near the side of relatively narrow roadways, where the width of the roadway does not exceed 1.75 times the designed mounting height.



Type III

The type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. Type III lighting needs to be placed to the side of the area, allowing the light to project outward and fill the area. This produces a filling light flow.

Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



Type IV

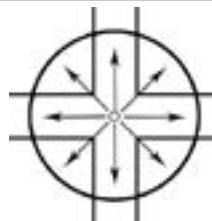
The type IV distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It's best for illuminating the perimeter of parking areas and businesses. The intensity of the Type IV lighting has the same intensity at angles from 90 degrees to 270 degrees.

Type IV light distributions have a preferred lateral width of 60 degrees. This distribution is intended for side-of-road mounting and is generally used on wide roadways where the roadway width does not exceed 3.7 times the mounting height.



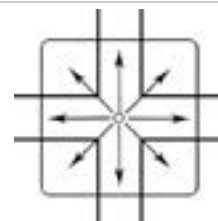
Type V

Type V produces a circular distribution that has the same intensity at all angles. This distribution has a circular symmetry of candlepower that is essentially the same at all lateral angles. It is intended for luminaire mounting at or near center of roadways, center islands of parkway, and intersections. It is also meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.



Type VS

Type VS produces a square distribution that has the same intensity at all angles. Type 5S (square) LED Distribution pattern. This distribution has a square symmetry of candlepower that is essentially the same at all lateral angles. It is intended for luminaire mounting at or near center of roadways, center islands of parkway, and intersections. It is also meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary. Type VS is used where the light pattern needs a more defined edge.



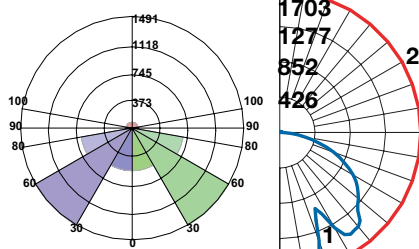
XSL3 LED Series

Optic selections

Standard globe

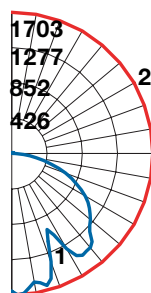
Catalog number	XSL3005EUN0-TGC2
Luminaire lumens	5,764
Luminaire efficacy rating (LER)	156
Input watts	37.01
Spacing criterion	0.88
Spacing criterion (90–270)	0.88
Spacing criterion (diagonal)	1.52

Luminaire classification system



BUG rating : B2-U3-G1

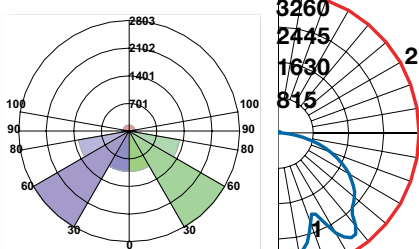
Candlepower curve



Standard globe

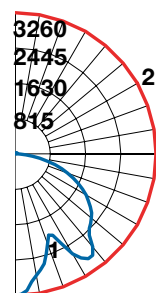
Catalog number	XSL3010EUN0-TGC2
Luminaire lumens	10,739
Luminaire efficacy rating (LER)	148
Input watts	72.44
Spacing criterion	0.82
Spacing criterion (90–270)	0.82
Spacing criterion (diagonal)	1.46

Luminaire classification system



BUG rating : B3-U3-G2

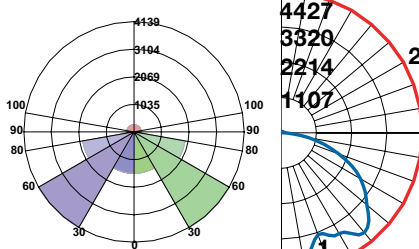
Candlepower curve



Standard globe

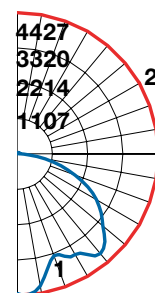
Catalog number	XSL3015EUN0-TGC2
Luminaire lumens	16,110
Luminaire efficacy rating (LER)	155
Input watts	103.66
Spacing criterion	1.32
Spacing criterion (90–270)	1.32
Spacing criterion (diagonal)	1.58

Luminaire classification system



BUG rating : B3-U3-G3

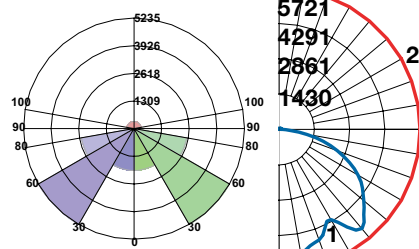
Candlepower curve



Standard globe

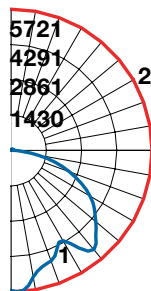
Catalog number	XSL3020EUN0-TGC2
Luminaire lumens	20,530
Luminaire efficacy rating (LER)	148
Input watts	139.02
Spacing criterion	1.10
Spacing criterion (90–270)	1.10
Spacing criterion (diagonal)	1.56

Luminaire classification system



BUG rating : B4-U3-G3

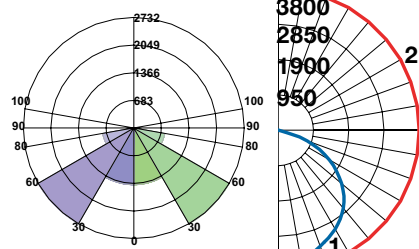
Candlepower curve



CUT reflector

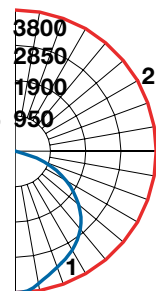
Catalog number	XSL3010EUN0-CUTC2
Luminaire lumens	9,846
Luminaire efficacy rating (LER)	136
Input watts	72.47
Spacing criterion	1.22
Spacing criterion (90–270)	1.22
Spacing criterion (diagonal)	1.38

Luminaire classification system



BUG rating : B3-U0-G1

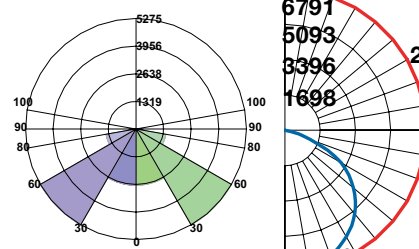
Candlepower curve



CUT reflector

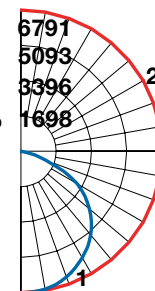
Catalog number	XSL3020EUN0-CUTC2
Luminaire lumens	18,841
Luminaire efficacy rating (LER)	136
Input watts	138.8
Spacing criterion	1.30
Spacing criterion (90–270)	1.30
Spacing criterion (diagonal)	1.42

Luminaire classification system



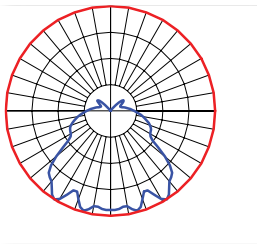
BUG rating : B4-U0-G1

Candlepower curve

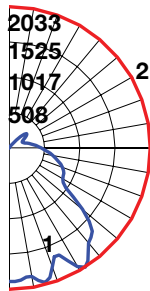


Standard globe

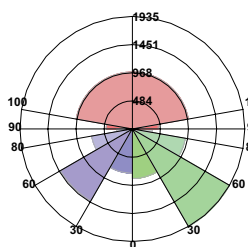
Catalog number	XSL3010-R5
Luminaire lumens	8587
Luminaire efficacy rating (LER)	98
Input watts	87.48
Spacing criterion	
Spacing criterion (90–270)	
Spacing criterion (diagonal)	

Luminaire classification system

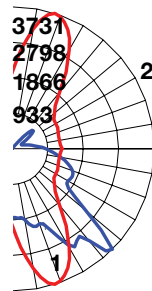
BUG rating : B2-U4-G3

Candlepower curve**Standard globe**

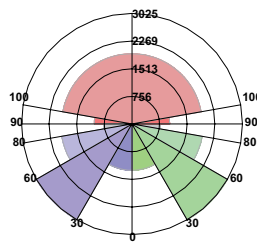
Catalog number	XSL3010-R3
Luminaire lumens	8649
Luminaire efficacy rating (LER)	99
Input watts	87.27
Spacing criterion	
Spacing criterion (90–270)	
Spacing criterion (diagonal)	

Luminaire classification system

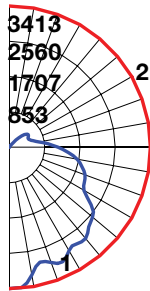
BUG rating : B2-U4-G3

Candlepower curve**CUT reflector**

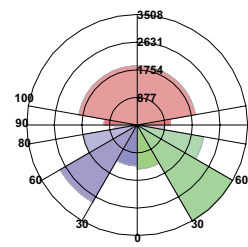
Catalog number	XSL3020-R5
Luminaire lumens	17,004
Luminaire efficacy rating (LER)	102
Input watts	166.3
Spacing criterion	
Spacing criterion (90–270)	
Spacing criterion (diagonal)	

Luminaire classification system

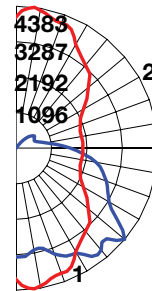
BUG rating : B2-U5-G5

Candlepower curve**CUT reflector**

Catalog number	XSL3020-R3
Luminaire lumens	17,343
Luminaire efficacy rating (LER)	104
Input watts	166.37
Spacing criterion	
Spacing criterion (90–270)	
Spacing criterion (diagonal)	

Luminaire classification system

BUG rating : B3-U5-G5

Candlepower curve

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

Quick pole assembly

- Operates in any kind of weather
- Overall length is 10' (3 m)
- Pole trade size is 1½" 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 quick 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.



01
The quick pole assembly blocks at a 90° angle.



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
Epoxy-coated finishes available
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



Standard kit

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

Q-P-5-10-N (Galvanized 1½" O.D. pipe)
Q-P-A-5-10-N (Aluminum 2½" O.D. pipe)
Standard Kit

Bracket sold separately



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 1½" NPT (1.66" OD) or 1½" NPT (1.90" OD) pipe

RQ-P-5-10-N (Galvanized 1½" O.D. pipe)
RQ-P-A-5-10-N (Aluminum 2½" O.D. pipe)
Retrofit Kit

Customer existing pipe (not supplied)

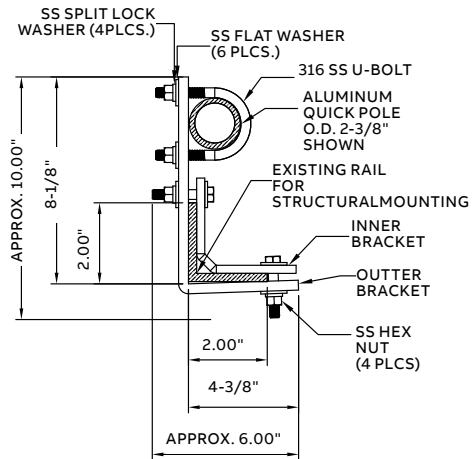
Quick pole assembly

Universal bracket kit

STAINLESS STEEL (ALUMINIUM POLE)

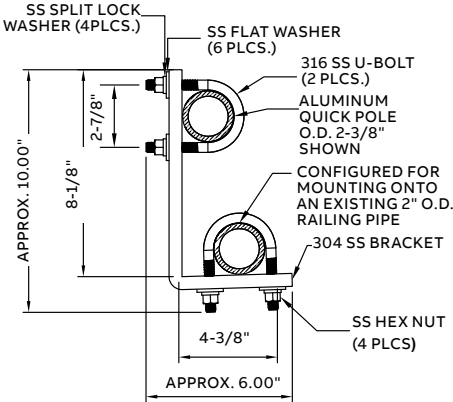
AMB-QP-A-BKT-N

Bracket for structural angle mounting



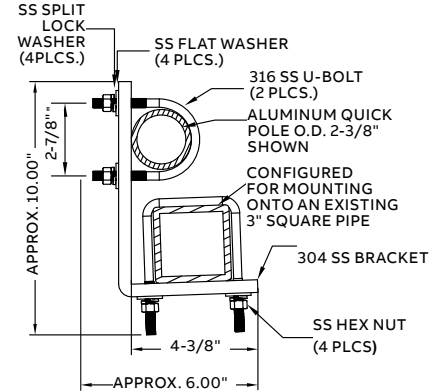
RMB-QP-A-BKT-N

Bracket for structural pole mounting



RMB-QP-A-BKT-3

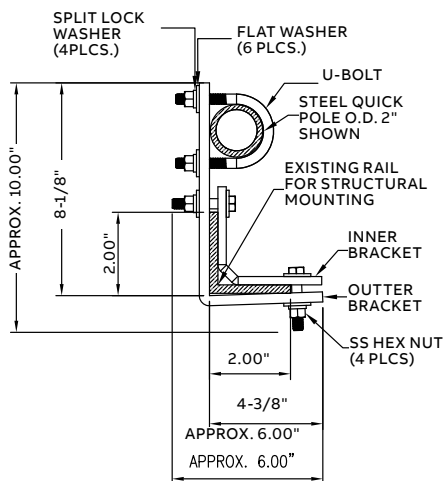
Bracket for structural square mounting



GALVANISED STEEL

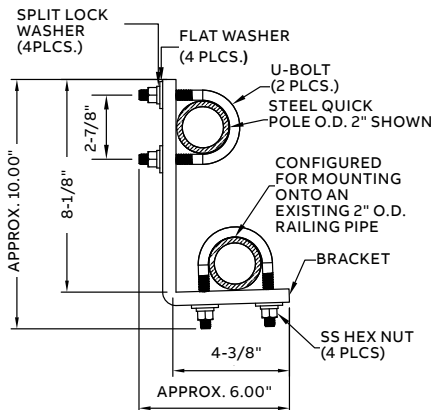
AMB-QP-BKT-N

Bracket for structural angle mounting



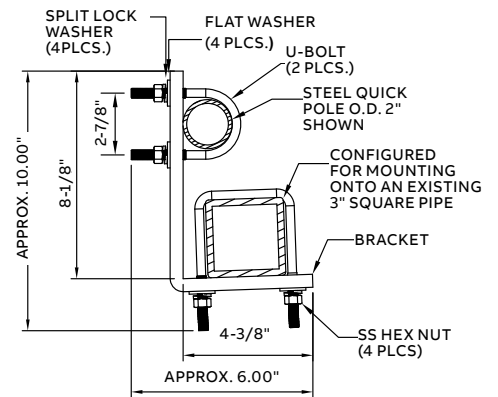
RMB-QP-BKT-N

Bracket for structural pole mounting



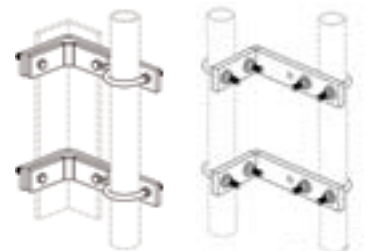
RMB-QP-BKT-3

Bracket for structural square mounting



Universal bracket kit

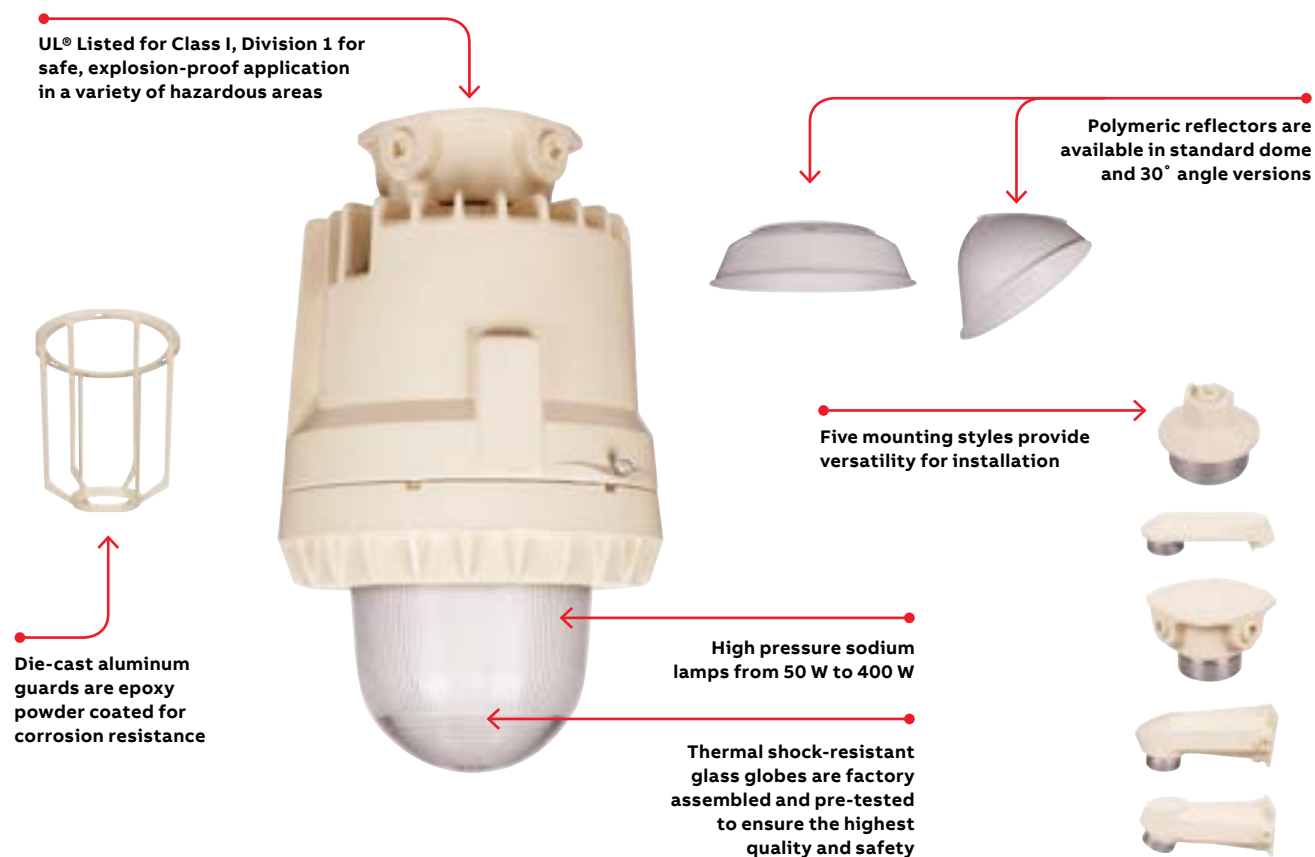
- Quick bolt-on installation, no welding or drilling
- Can be attached to angle iron guardrails up to 3"
- Supplied to be installed on tubular structures 2" O.D. or less but designed for up to 2-3/8" U-Bolt in both positions
- Allows the pole sections to rotate before final positioning



XSL5

HID Series

Your go-to versatile explosion-proof lighting fixture, ideal for use in marine and wet locations, and a variety of hazardous areas.



CERTIFICATIONS



UL844
UL1598A

Outdoor wet locations
Temperature range: -30 °C to 40 °C

CLASSIFICATION

CLASS I	
Division 1	Groups C, D
Division 2	Groups A, B, C, D
Zone 1	Groups IIC, IIB, IIA
CLASS II	
Division 1	Groups E, F, G
Division 2	Groups E, F, G

Classification may vary upon light source and wattage. For details, see thermal performance chart on p. 30-31.

Applications

Chemical plants
Oil refineries
Waste treatment facilities
Automotive manufacturing plants
Paint manufacturing facilities
Paint spray locations
Chemical & plastic mixing and storage areas
Pipeline pumping stations
Oil and gas terminals
Defense and government facilities

XSL5

Key features and benefits

Features

- UL® Listed for Class I, Division 1 for safe, explosion-proof application in a variety of hazardous areas
- Factory-sealed assembly meets code requirements without the need for external sealing fittings
- Dual-pitch Acme threads make assembly easy and faster than designs with standard V-cut threads, greatly reducing the risk of cross threading
- Factory-wired connection block means ballast is pre-wired to lower half of electrical connection block, allowing wireless connection of ballast housing to mounting module
- Five mounting styles – pendant, ceiling, wall, angle stanchion and bulkhead – provide versatility for installation
- Thermal shock-resistant glass globes are factory assembled and pre-tested to ensure the highest quality and safety
- Die-cast aluminum guards are epoxy powder coated for corrosion resistance and have keyhole slots for easy attachment to stainless steel screws
- High-pressure sodium in wattages from 50 to 400 watts
- Polymeric reflectors are available in standard dome and 30° angle versions
- UL paint spray listed in wattages up to 100 watts

Applications

Chemical plants
Oil refineries
Waste treatment facilities
Automotive manufacturing plants
Paint manufacturing facilities
Paint spray locations
Chemical and plastic mixing and storage areas
Pipeline pumping stations
Oil and gas terminals
Defense and government facilities

Wattages and voltages

- High-pressure sodium: 50–400 watts
- All luminaires: multi-tap standard (120, 208, 240, 277 V), wired 120 V (other voltages, frequencies available)

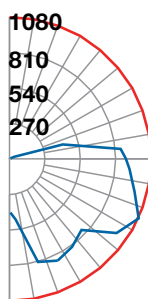
Materials and finishes

- Ballast housing: copper-free aluminum, powder finish
- Mounting modules: copper-free aluminum, powder finish
- Hardware: stainless steel
- Globes: tempered glass
- Guard: copper-free aluminum, powder finish
- Reflectors: fiberglass-reinforced

Ceiling mount photometry

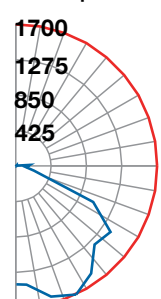
Reference data	
Catalog number	XSL5SO10H04G-C2-E
Lamp	100W HPS ED23 1/2
Lamp lumens	9500
Input watts	130
Luminaire lumens	7162
Efficiency	75%
Efficacy rating (LER)	55.1
Spacing criterion (0–180)	2.66
Spacing criterion (90–270)	2.66
Spacing criterion (diagonal)	2.74

Candlepower curve



Reference data	
Catalog number	XSL5SO10H04G-C2-E + VR31P
Lamp	100W HPS ED23 1/2
Lamp lumens	9500
Input watts	130
Luminaire lumens	6254
Efficiency	66%
Efficacy rating (LER)	48.1
Spacing criterion (0–180)	1.60
Spacing criterion (90–270)	1.60
Spacing criterion (diagonal)	1.70

Candlepower curve



XSL5

Fixture assembly guide

1

Mounting style



Pendant mount

Stanchion mount

Ceiling mount

Wall mount

Bulkhead mount

2

Globe assemblies



Up to 150 HPS



250 HPS and 400 HPS

3

Guards



Cast guard for 150 HPS



Cast guard for 250 HPS

4

Optional reflectors
(sold separately)



Standard dome



30° Angle reflector

Individual components

Mounting options

Part number	Description	Conduit hub size
XP2	Pendant mount	¾"
XP3	Pendant mount	1"
XS4	Stanchion mount	1¼"
XS5	Stanchion mount	1½"
XC2	Ceiling mount	¾"
XC3	Ceiling mount	1"
XB2	Wall mount	¾"
XB3	Wall mount	1"
XJ2	Bulkead mount	¾"
XJ3	Bulkead mount	1"

Replacement globe assemblies¹

Part number	Description
XGSA44	XSL5 replacement globe assembly – up to 150 HPS
XGSA44A	XSL5 replacement globe assembly – 250 HPS & 400 HPS

¹ For stainless steel inserts, please add "SI" to part no. (ex: XGSA44SI)

Guards

Part number	Description
XGU44	Cast aluminum guard
VGU31 ²	Cast aluminum guard

² Used on all 400-watt fixtures and 250-watt HPS fixtures

Reflectors

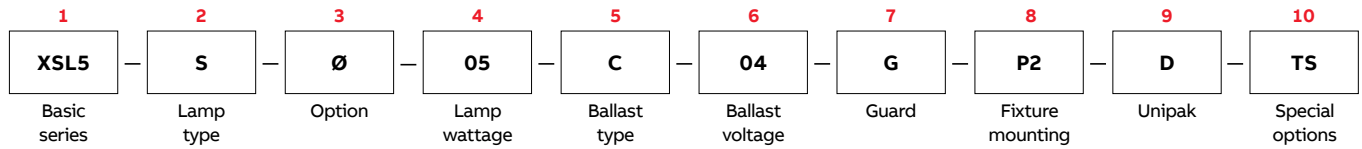
Part number	Description
VR31P	Standard dome, fiberglass-reinforced polyester
VRA31P	30° Angle reflector, fiberglass-reinforced polyester

Reflectors are shipped bulk unless specified.

XSL5

Numbering system

Unipak™ = Ballast tank + optics and mountings + options (if necessary)



Ballast tank

Part	Part number	Description
1 Basic series	XSL5	XSL5 fixture
2 Lamp type	S	High-pressure sodium
3 Option	Ø	Standard no option
	Q	Quartz lamp (100 W maximum) (Class I, Div. 2 only)
	R	HPS fixture provided with instant restart starter as opposed to conventional ignitor
4 Lamp wattage	05	50 W HPS S68
	07	70 W HPS
	10	100 W HPS
	15	150 W HPS
	25	250 W HPS
	40	400 W HPS
5 Ballast type	C	Constant wattage autotransformer
	H	High power factor
6 Ballast voltage	04	120/208/240/277 V at 60 Hz
	12	120 V at 60 Hz
	20	208 V at 60 Hz
	24	240 V at 60 Hz
	27	277 Volt, 60 Hz
	34	347 V at 60 Hz
	48	480 V at 60 Hz

Optics and mountings

Part	Part number	Description
7 Guard	G	Cast globe guard
8 Fixture mounting	P2	¾" Pendant
	C3	1" Ceiling
	B4	1¼" Wall
	J5	1½" Bulkhead
	S	Stanchion
9 Unipak	D	Unipak with diffused lamp
	E	Unipak with clear lamp
	U	Unipak no lamp

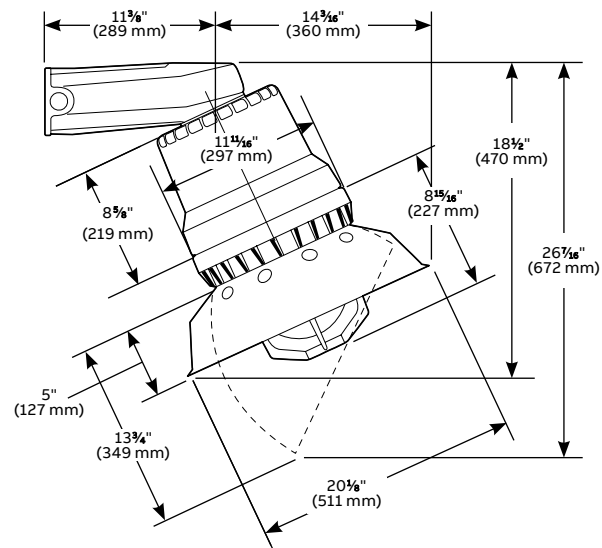
Options

Part	Part number	Description
10 Special options	PS	Paint spray label (100W max)
	TS	Silicon coated tempered glass globe

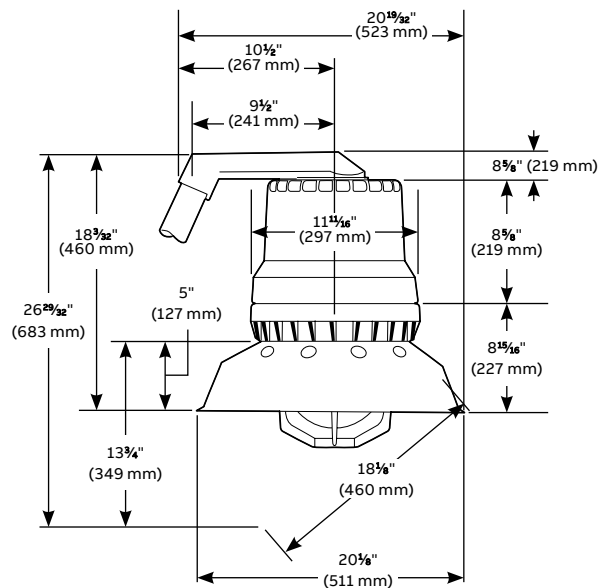
XSL5

Dimensions

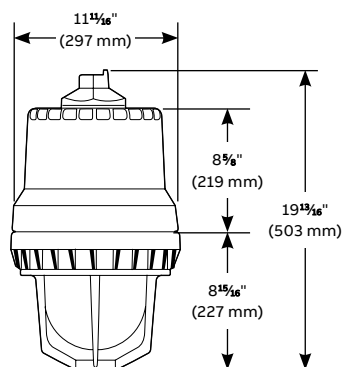
Bulkhead mount with globe, guard and reflector



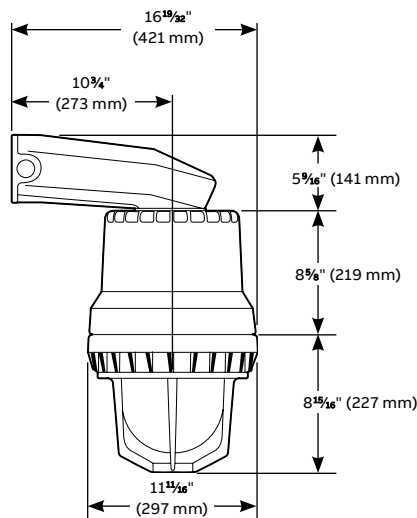
Stanchion mount with globe, guard and reflector



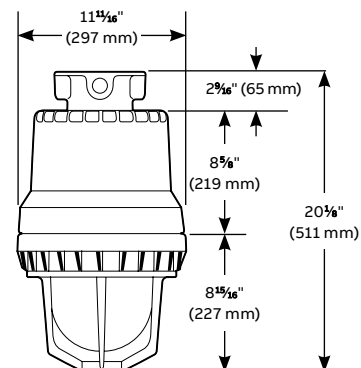
Pendant mount with globe and guard



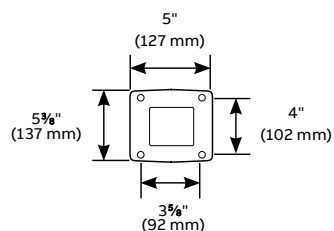
Wall mount with globe and guard



Ceiling mount with globe and guard



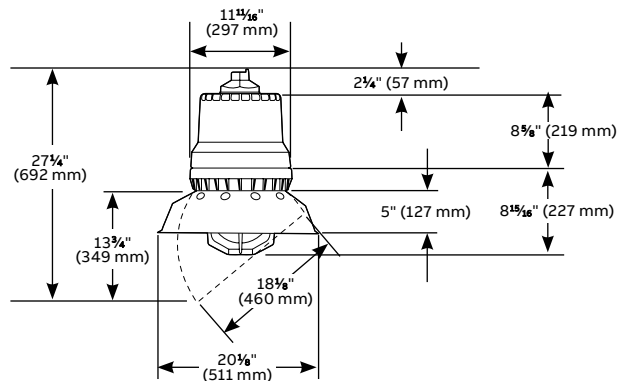
Template for bulkhead for wall mount



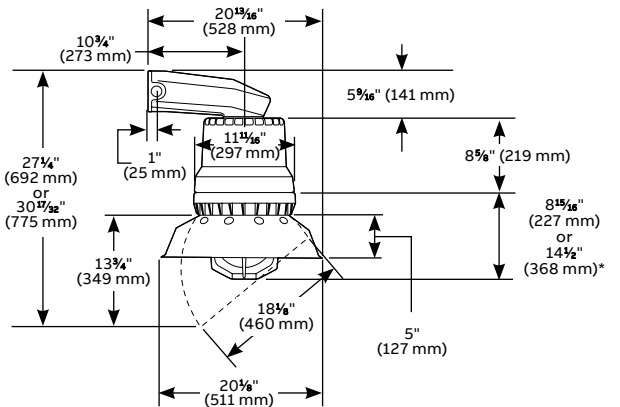
XSL5

Dimensions

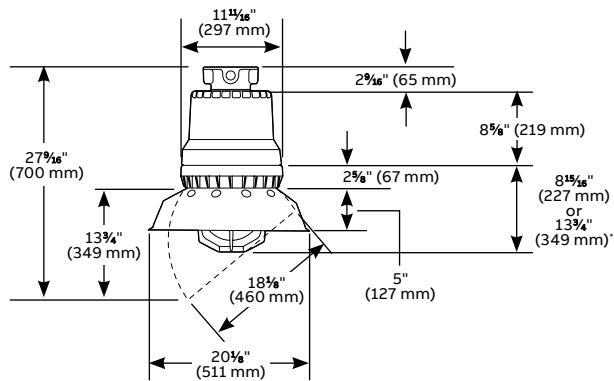
Pendant mount with globe, guard and reflector



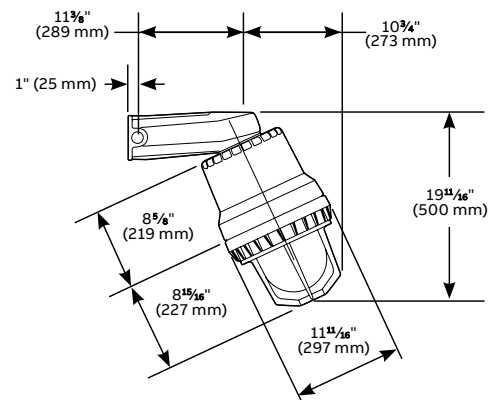
Wall mount with globe, guard and reflector



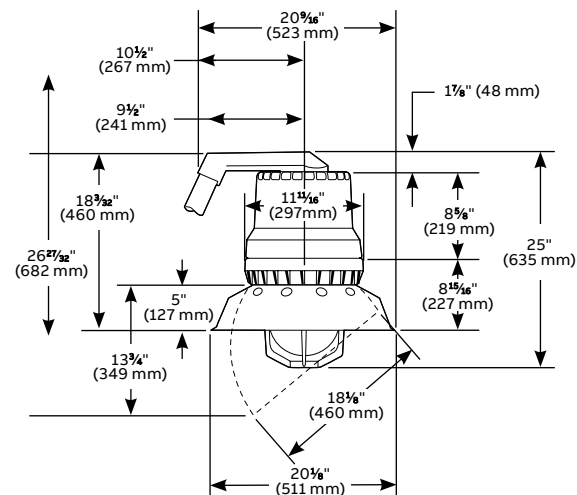
Ceiling mount with globe, guard and reflector



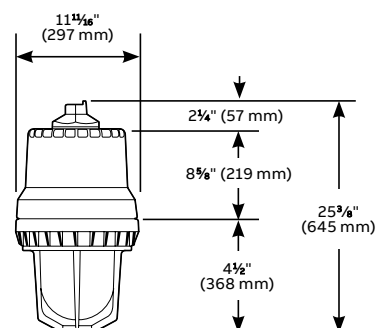
Bulkhead mount with globe and guard



Stanchion mount with globe, guard and reflector



Pendant mount with globe and guard



XSL5

Thermal performance data

Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 40°C | ambient in free air

High pressure sodium / nameplate marked with rating based on hottest fixture congestion									
Configuration		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)		150 W (S55 or S56 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	lamp	Lamp w/ auxiliary qtz.
			T no.		T no.		T no.		T no.
Globe and guard	A	T6	T4A	T6	T4A	T5	T4	T4	T4A
Globe, guard and dome reflector	B	T6	T4A	T6	T4A	T5	T4	T4	T3C
Globe, guard and angle reflector	C	T6	T4A	T6	T4A	T5	T3C	T4	T3C

Class II & III*, Division 1 & 2 – Maximum external fixture temperature in °C at 40°C | ambient in free air

High pressure sodium / nameplate marked with rating based on hottest fixture congestion									
Configuration		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)		150 W (S55 or S56 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.
Class II groups	Class II groups	Class II groups	Class II groups	Class II groups	Class II groups	Class II groups	Class II groups		
Globe and guard	A	EFG	EFG	EFG	EFG	EFG	EF	EFG	EF
Globe, guard and dome reflector	B	EFG	EFG	EFG	EFG	EFG	EF	EFG	EF
Globe, guard and angle reflector	C	EFG	EFG	EFG	EFG	EFG	EF	EFG	EF

Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 55°C | ambient in free air

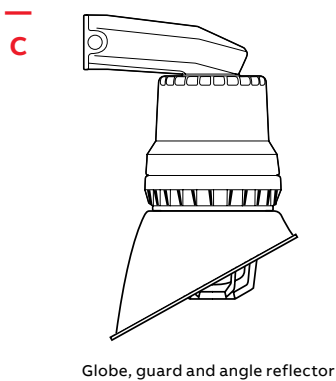
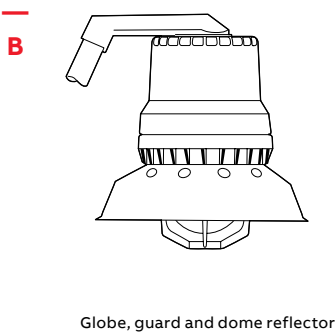
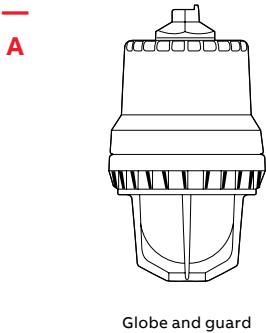
High pressure sodium / nameplate marked with rating based on hottest fixture congestion									
Configuration		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)		150 W (S55 or S56 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.
			T no.		T no.		T no.		T no.
Globe and guard	A	T6	T4	T5	T4	T5	T4A	–	T4A
Globe, guard and dome reflector	B	T6	T4	T5	T4	T5	T4A	–	T4A
Globe, guard and angle reflector	C	T6	T4	T5	T4	T5	T4A	–	T4A

XSL5

Thermal performance data

Class I, Division 1, Group C & D – Maximum external fixture temperature in °C at 65 °C | ambient in free air

High pressure sodium / nameplate marked with rating based on hottest fixture congestion							
Configuration		50 W (S68 lamp)		70 W (S62 lamp)		100 W (S54 lamp)	
		Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.	Lamp	Lamp w/ auxiliary qtz.
			T no.		T no.		T no.
Globe and guard	A	T5	–	T4A	–	T4A	–
Globe, guard and dome reflector	B	T5	–	T4A	–	T4A	–
Globe, guard and angle reflector	C	T5	–	T4A	–	T4A	–



Thermal data

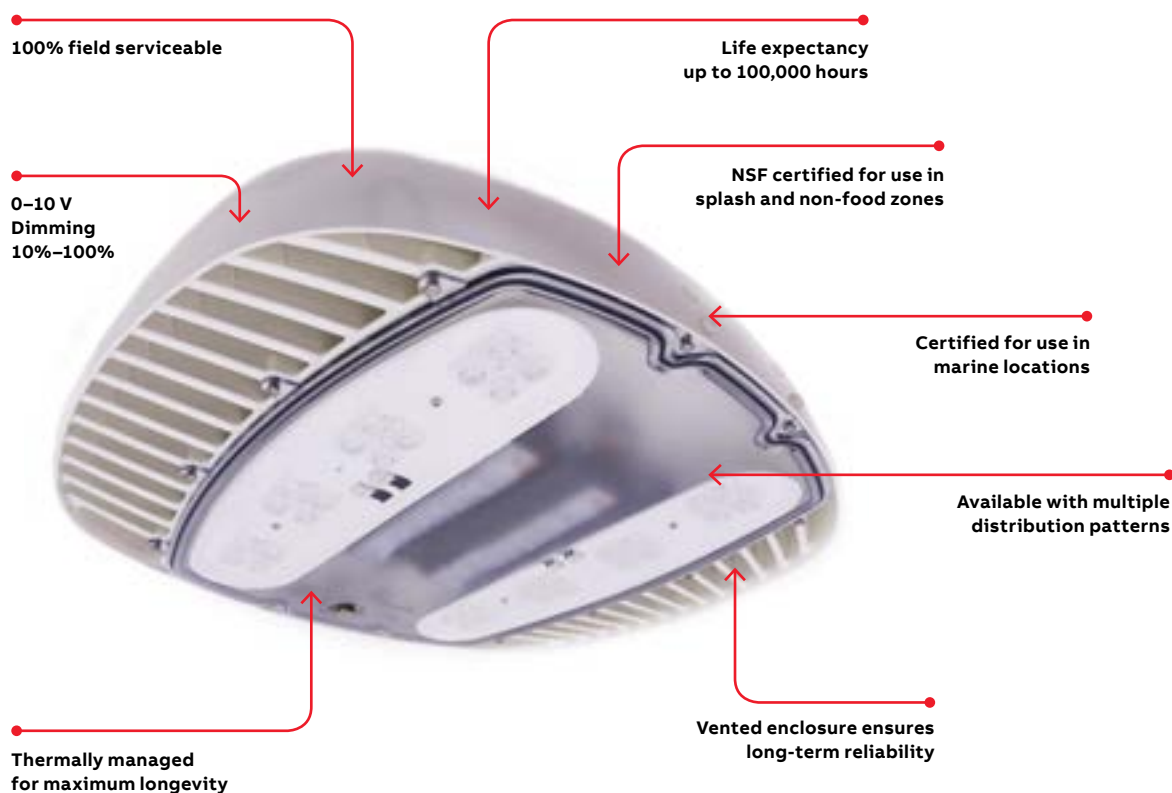
This data includes globe, guard and reflector				
Lamp type	Ambient temperature (°C)	Groups	Class I	Supply wire suitable temperature (°C)
			Temp. code	
250 Watt HPS type S50	40	C, D	T4A	85
400 Watt HPS type S51	40	C, D	T4A	85



XSL11

LED Series

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.



CERTIFICATIONS



Not all XSL11 series are DLC qualified. For all qualified products, please visit: www.designlights.com.



Splash and non-food zones



UL844
UL1598A
UL8750



CLASSIFICATION

CLASS I

Division 2 Groups A, B, C, D

Zone 2 Group IIC

Zone 22 Group IIIB

CLASS II

Division 2 Groups F, G

CLASS III

Contact your ABB sales representative to verify classification

Applications

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

XSL11 LED

Key features and benefits

Housing

- Copper-free high-pressure die-cast aluminum
- Lens and case are designed to withstand severe impact
- Gore® vented pressure equalization

Finish

- Polyurethane multi-layer powder coating with anti-graffiti properties suitable for interior and exterior surfaces
- Easy cleaning and very smooth to prevent particulate from accumulating
- Resistant to impact, humidity and high chlorine environments
- Superior surface bonding to prevent dripping

Thermal management

- Surface area ensures LEDs are kept running at maximum efficiency in temperatures up to 55 °C
- Unique heat sink design creates increased airflow for optimal LED and power supply operating temperatures

Power supplies

- Two independent power supplies for increased reliability
- Two input power ranges for flexibility
- Built-in temperature control adjusts power output in case of extreme ambient temperatures in order to maintain illumination while protecting the luminaire
- High performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation (LM-80)
- Built-in junction box with ¾" NPT entry for electrical termination within sealed cavity

CREE LEDs

- Proven reliability and high efficiency
- Superior CRI (90+)

Electrical ratings

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



XSL11 LED

Key features and benefits

Temperature code chart

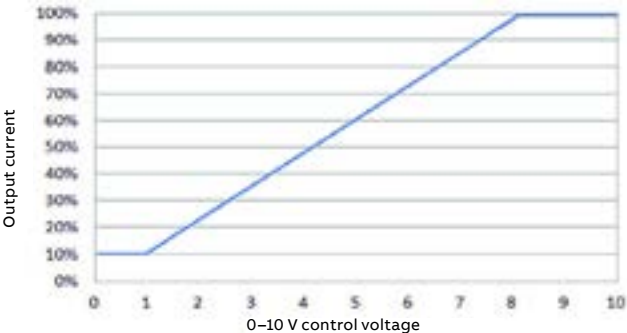
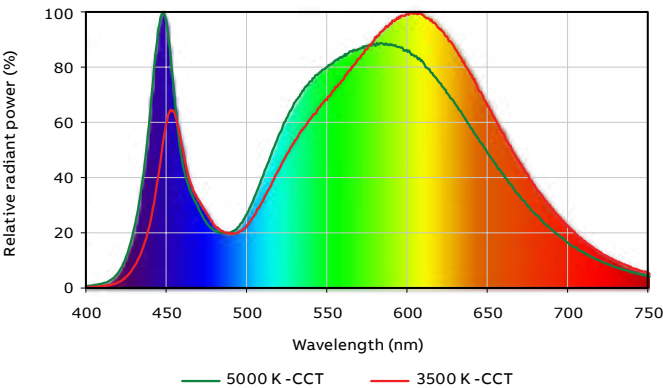
Luminance	Input voltage	Ambient temp (°C)	Optical models		Flood models		All models
			Class I, Div 2 T-Codes	Ambient temp (°C)	Class I, Div 2 T-Codes	Class II, Div 2 T-Codes	
XSL1110	AC	-40 to 55	T3C	-40 to 55	T4A	T5	
XSL1110	HV	-40 to 54	T3C	-40 to 51	T4	T5	
XSL1115	AC	-40 to 55	T3C	-40 to 55	T4A	T5	
XSL1115	HV	-40 to 54	T3C	-40 to 51	T4	T5	
XSL1120	AC	-40 to 55	T3C	-40 to 55	T4A	T5	
XSL1120	HV	-40 to 54	T3C	-40 to 51	T4	T5	
XSL1125	AC	-40 to 51	T3C	-40 to 55	T4A	T5	
XSL1125	HV	-40 to 44	T3B	-40 to 50	T4A	T5	
XSL1130	AC	-40 to 43	T3	-40 to 42	T4A	T5	
XSL1130	HV	-40 to 43	T3	-40 to 40	T3	T5	

Color temperature

Available standard in 3500 K and 5000 K color temperatures, with additional color temperatures available from 2700 to 6500 K. Contact your sales representative for more information.

Dimming

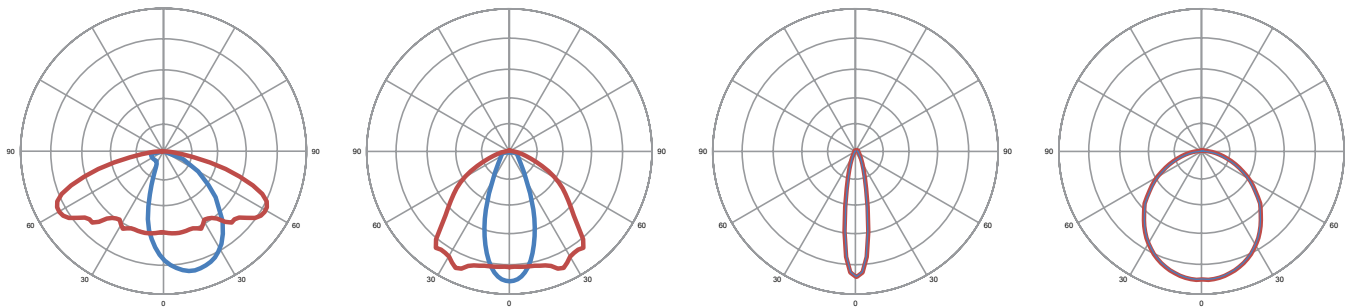
Driver will source a maximum of 200 µA for control needs. A controller must sink current from 0–10 V control leads.



XSL11 LED

Key features and benefits

Modular optics (20 options)



R2 – IESNA Type 2

Model	Lumens	Lumens/ watts
XSL1110	12370	132
XSL1115	16340	130
XSL1120	20560	125
XSL1125	26090	117
XSL1130	31670	109

OC – Oval

Model	Lumens	Lumens/ watts
XSL1110	12370	132
XSL1115	16340	130
XSL1120	20560	125
XSL1125	26090	117
XSL1130	31670	109

SC – Narrow 18°

Model	Lumens	Lumens/ watts
XSL1110	12370	132
XSL1115	16340	130
XSL1120	20560	125
XSL1125	26090	117
XSL1130	31670	109

CUT – Wide beam

Model	Lumens	Lumens/ watts
XSL1110	12370	132
XSL1115	16340	130
XSL1120	20560	125
XSL1125	26090	117
XSL1130	31670	109

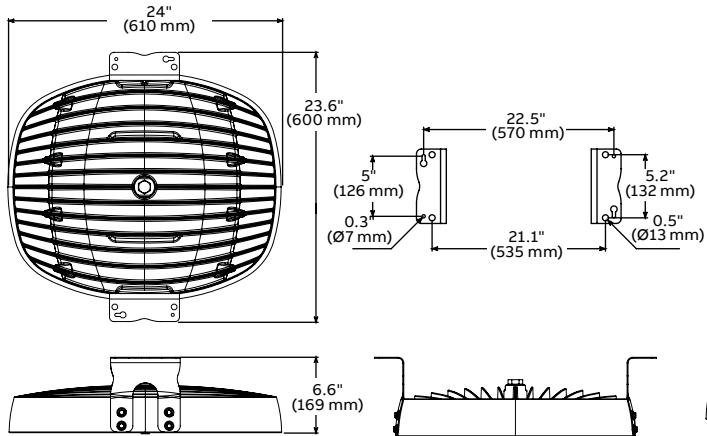
Standard offering above, 13 alternate optical profiles available upon request.
Contact sales representative for further details. Minimum order quantities, additional costs and lead times may incur.



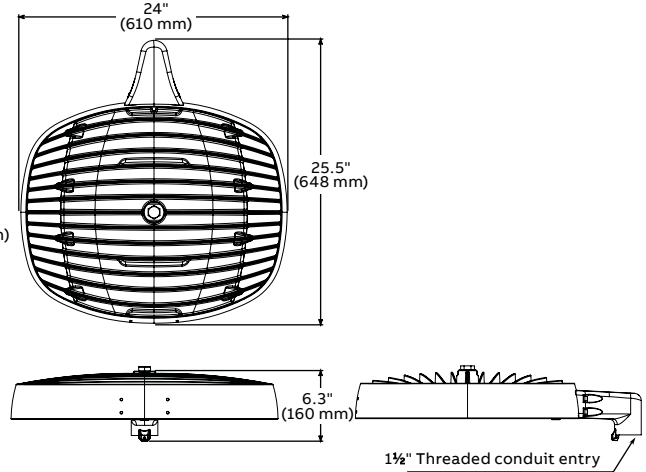
XSL11 LED

Mounting options

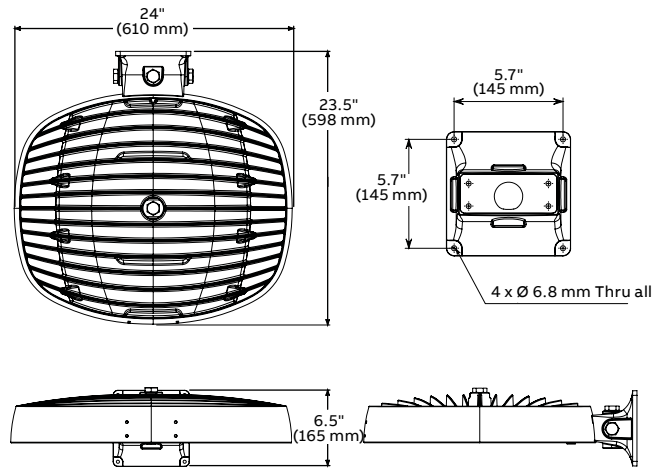
Surface/suspended mount (included standard) 16.8 kg | 37 lbs



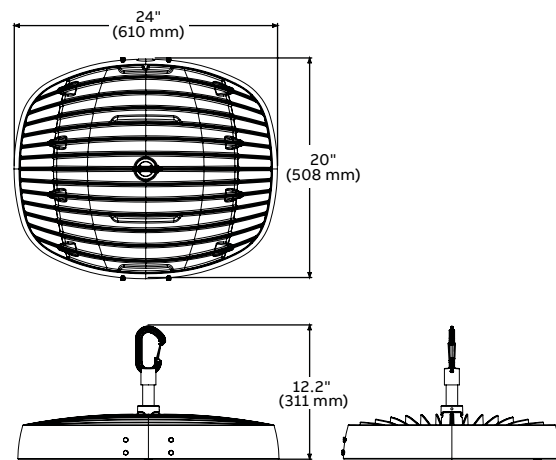
Pole mount XSL11-PM (optional accessory) 17.3 kg | 38 lbs



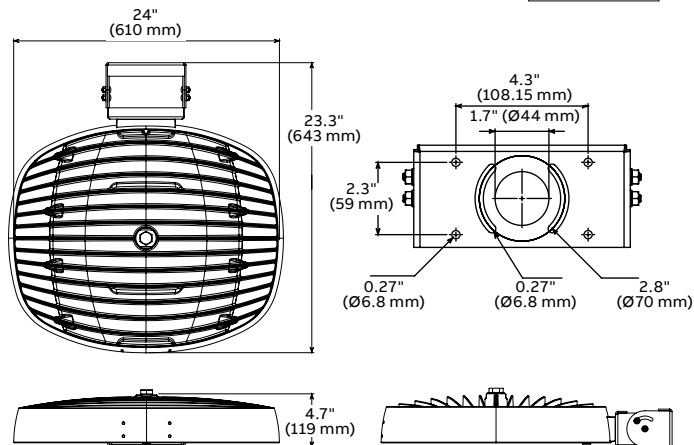
Wall mount XSL11-WM (optional accessory) 17.7 kg | 39 lbs



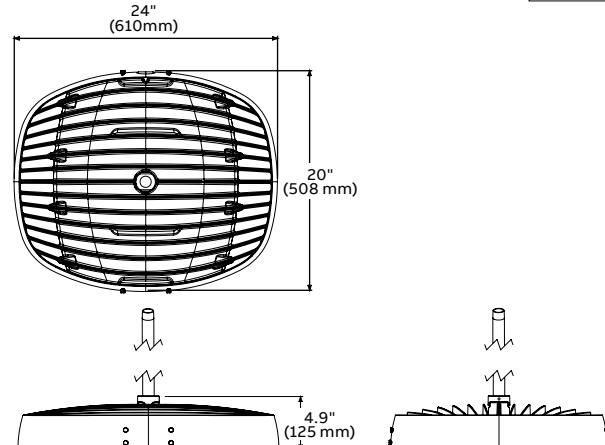
Hanging pendant XSL11-HK (optional accessory) 16.4 kg | 36 lbs



Yoke mount XSL11-YM (optional accessory) 16.8 kg | 37 lbs



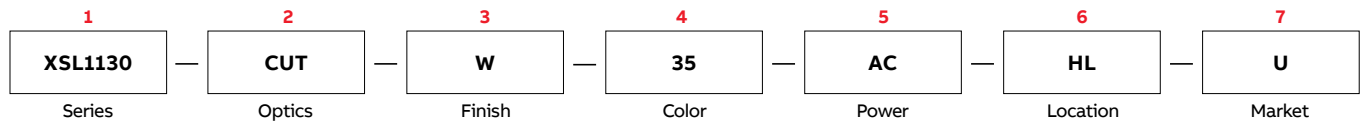
Conduit mount XSL11-CM (optional accessory) 16.4 kg | 36 lbs



XSL11 LED

Numbering system

Lighting fixture



Fixture

Part	Part number	Description
1 Series	XSL1110	12260 to 12370 lumens
	XSL1115	16200 to 16490 lumens
	XSL1120	20730 to 23800 lumens
	XSL1125	25860 to 26610 lumens
	XSL1130	31400 to 31670 lumens
2 Optics	CUT	Wide beam (no optics)
	R2	IESNA Type 2
	OC	Oval, 26° x 108°
	SC	Spot 18°
3 Finish	W	White
4 Color	35	Warm white (3500 K)
	35H	Warm white, high CRI (3500 K)
	50	Cool white (5000 K)
	50H	Cool white, high CRI (5000 K)
5 Power	AC	120 - 277 V AC
	HV	347 - 480 V AC
6 Location	HL	Hazardous location
7 Market	Blank	Canadian market
	U	US market

Mounting options (order separately)

Part	Part number	Description
Mounting type	XSL11-WM-WT	Wall mount, white finish ⁵
	XSL11-HK-WT	Hanging pendant mount, white finish
	XSL11-PM-WT	Pole mount, white finish ⁵
	XSL11-YM-SS	Yoke mount, stainless steel ^{4,5}
	XSL11-YK-SS	High vibration yoke ^{2,4,5}
	XSL11-CM	Conduit mount

Notes

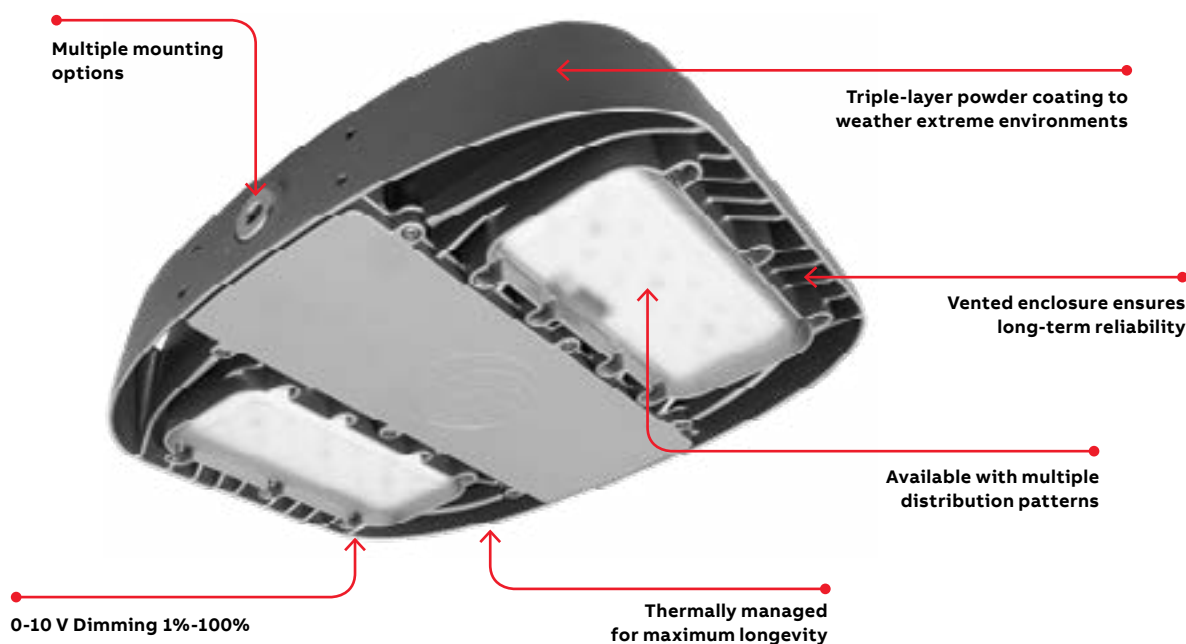
1. Minimum order quantities, additional costs and lead times may incur.
2. Custom finishes and high vibration yoke mount are not available for NSF certified units.
3. Hazardous location.
4. Yoke mount only available in stainless steel finish.
5. IDA Fixture seal of approval only applies to fixtures with a CCT of 3000K or less, and that have fixed mounts aiming the fixture perpendicular to the ground.



XSL10

LED Series

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.



CERTIFICATIONS



Not all XSL10 series are DLC qualified. For all qualified products, please visit: www.designlights.com.



UL844
UL1598A
UL8750



IP66/67

CLASSIFICATION

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

Contact your ABB sales representative to verify classification

Applications

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

XSL10 LED

Key features and benefits

Features

- Extremely robust
- Thermally managed for longevity
- Easy field angle adjustment
- -40 to 55 °C operating range
- Lifespan up to 100,000 hours
- Sealed to IP66
- Extreme vibration resistance

Junction box

- Direct heat transfer from power supply to external case for optimal performance
- Plenty of wiring space for optional accessories (contact your ABB representative for custom options)
- ¾" NPT entry
- IP 66/67 rated, suitable for wet locations

Thermal management

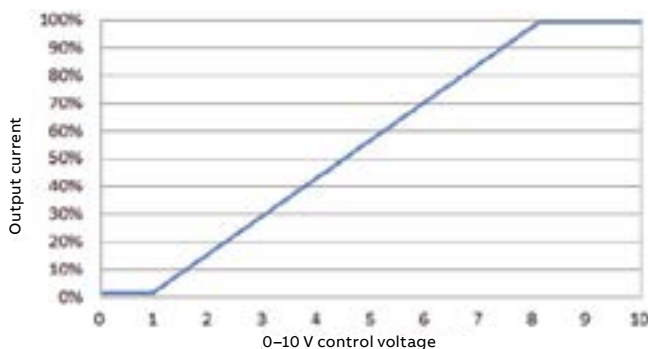
- Ample surface area of head ensures LEDs are kept running at maximum efficiency, even at 55 °C temperature
- Unique heat sink design creates increased airflow for optimal LED and power supply operating temperature
- Physical separation of electronics for increased system reliability
- Perimeter band adds ruggedness and channels heat through fins with laminar flow principles

Output

3050 to 6265 lumens

Dimming

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

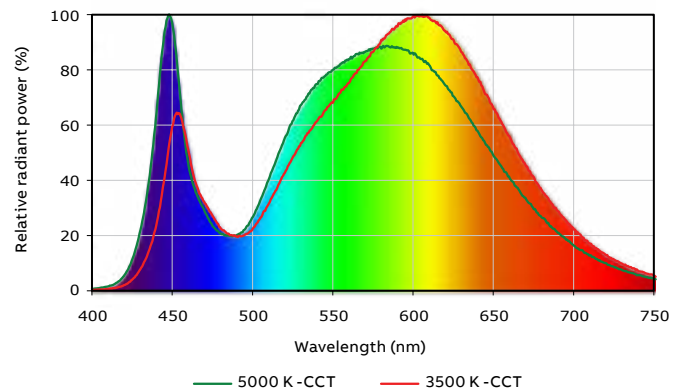


Applications

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

Color temperature

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



Nichia LEDs

- Proven reliability
- High efficiency
- Superior CRI (80+)
- Several CCT options for added design flexibility

Housing

- Copper-free high pressure die-cast aluminum case
- Triple-layer coating suitable for marine applications
- Physical separation between power supply and LEDs
- Lens and case are designed to withstand severe impact

Power supplies

- Two input ranges for ultimate flexibility
- Utilizes high performance LED drivers for better efficiency and up to 100,000 hours of maintenance-free operation
- Built-in junction box with ¾" NPT entry

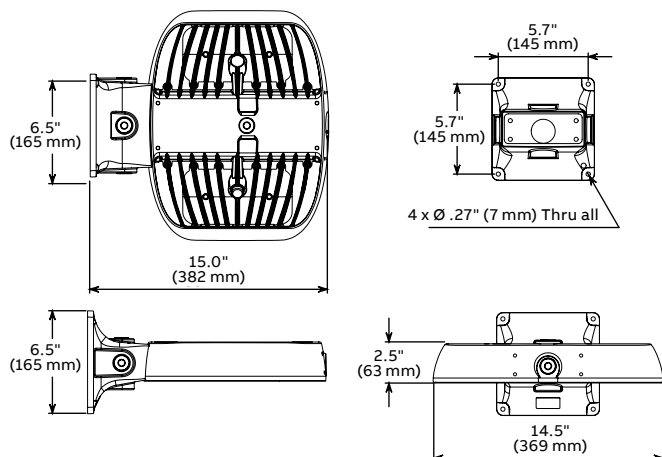
Power	XSL103: 26 W (WF) - 29 W (2F, OF, SF)	
	XSL106: 51 W (WF) - 57 W (2F, OF, SF)	
Current	XSL103: AC - 0.25A@120 VAC	HV - 010A@347 VAC
	XSL106: AC - 050A@120 VAC	HV - 020A@347 VAC

XSL10 LED

Mounting options

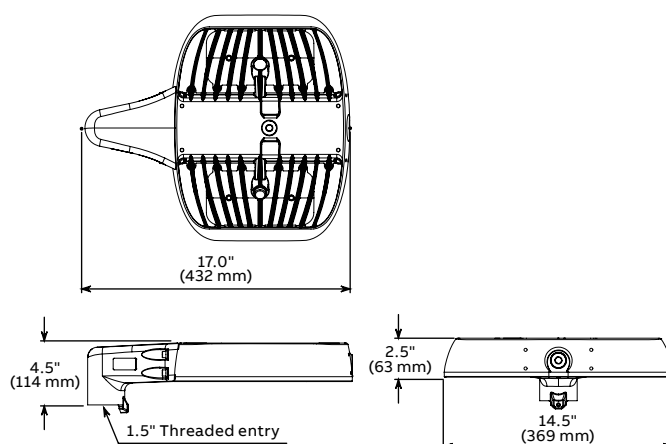
Wall pack mount XSL10-WM

6.8 kg | 15 lbs



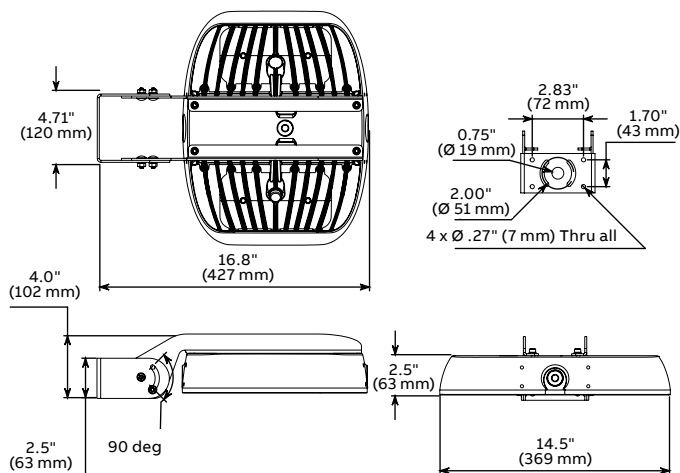
Pole mount XSL10-PM

5.6 kg | 12.4 lbs



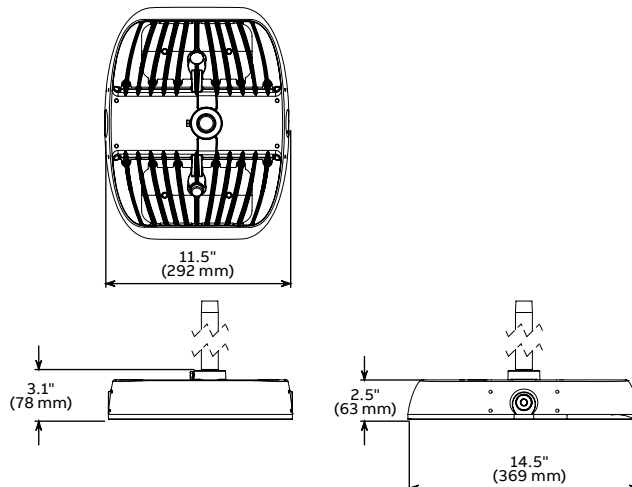
Yoke mount XSL10-YM

6.3 kg | 13.9 lbs



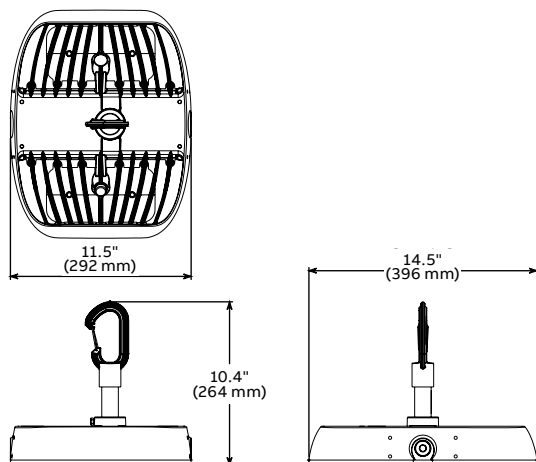
Conduit connection XSL10-CC

5.3 kg | 11.7 lbs

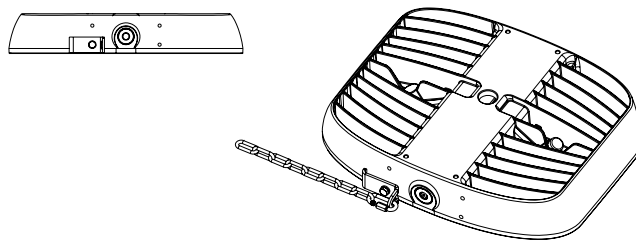


Hook pendant mount XSL10-HK

4.9 kg | 10.8 lbs

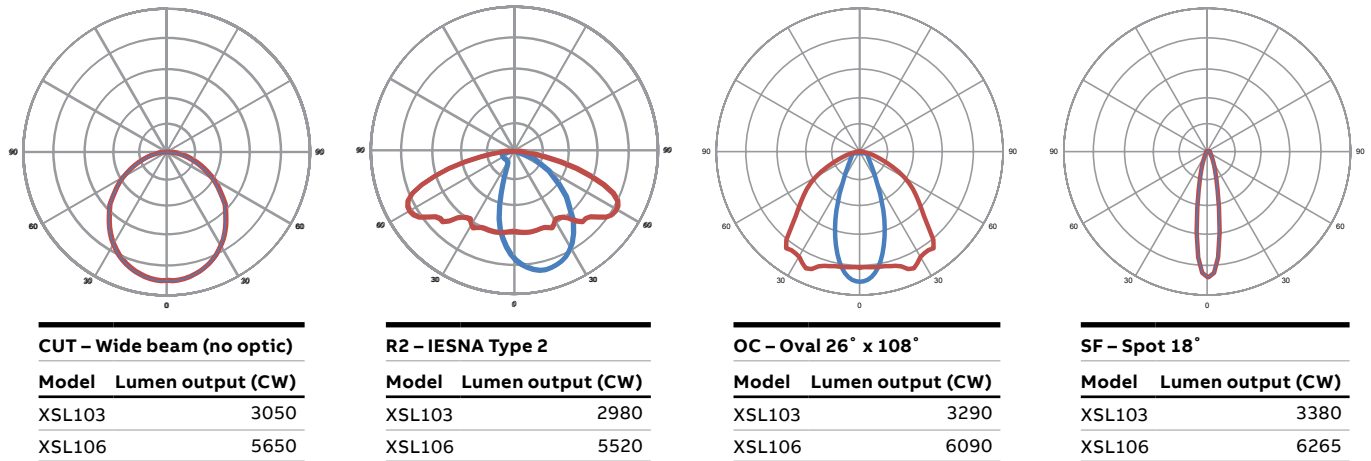


Secondary safety XSL10-SS



XSL10 LED

Optic options

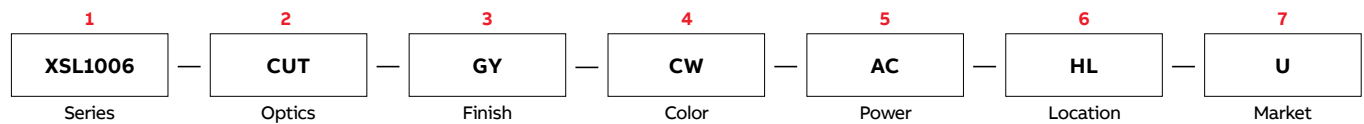


Standard offering above, 13 alternate optical profiles available upon request.

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

Numbering system

Lighting fixture



Lighting fixture

Part	Part number	Description
1 Series	XSL1003	2980 to 3380 lumens
	XSL1006	5520 to 6265 lumens
2 Optics	SF	Spot 18°
	R2	IESNA Type 2
	OC	Oval 26° x 108°
	CUT	Wide (no optic)
3 Finish	GY	Gray
4 Color	CW	Cool white (5000 K)
5 Power	AC	120 - 277 VAC
	HV	347 VAC
6 Location	HL	Hazardous location
7 Market	Blank	US market

Mounting options (order separately)

XSL10-WM-GY	Wall mount, gray finish
XSL10-PM-GY	Pole mount, gray finish
XSL10-YM	Yoke mount ¹
XSL10-CC-GY	Conduit connection
XSL10-HK-GY	Hook pendant mount
XSL10-SS	Secondary safety

¹Only available in stainless steel