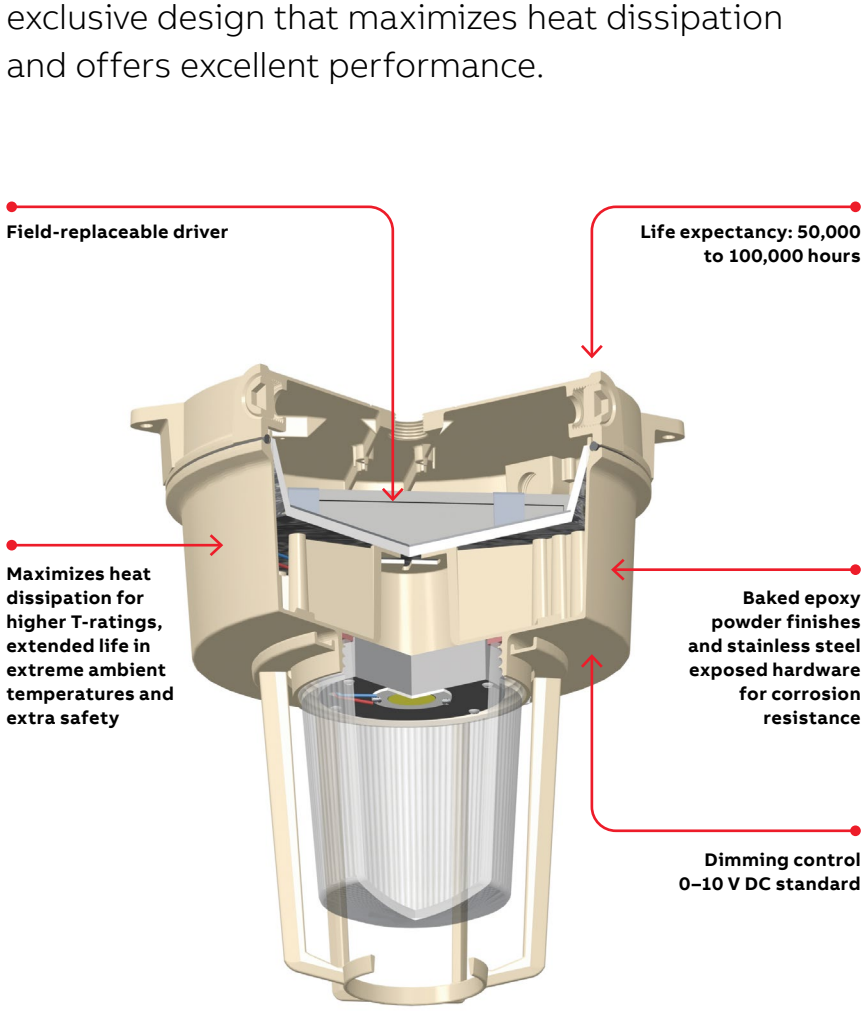
XSL3
LED Series

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

NEMA 4X

US

E76933

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 µs 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

Cone-top pendant

Ceiling and pendant mount

Wall mount

Rigid pendant

Hazvertor™ ring

25˚ Angle stanchion

Straight stanchion

2

LED driver tank

3

Globe or reflector

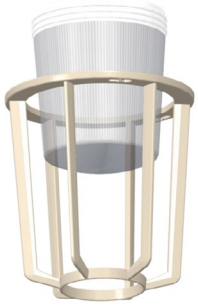
Heat-resistant globe

Refractor globe R1

Refractor globe R3

Refractor globe R5

CUT



4

Guard (n/a for CUT)

Cast guard

Polymeric guard

XSL3 LED Series

Numbering system

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

1	2	3	4	5	6	7	8	9	10
XSL3	10	UN	S	S	TG	C	A2	T	I3
Series	Lumens output	Input voltage / frequency	Housing style	Glass coating	Globe type	Guard option	Mounting style	Special finish option	Special light distribution

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
	CUT[2]	Cut-off reflector, polycarbonate lens[2]
7 Guard option (glass globe only)	Blank	No guard
	C[3]	Cast guard
	L[3]	Polymeric guard

[1] For Teflon coating, add prefix "S" before the first digit (Ex: SR1) Not applicable to CUT
[2] CUT optics: 3000K < CCT. Cannot be used with stanchion mount. Not suitable for Class II, Division 1
[3] Cannot be used with CUT

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	Hazvertor™ Crouse-Hinds® straight stanchion[2]
	HV4	Hazvertor™ Crouse-Hinds® angle stanchion[2]
	HV5	Hazvertor™ 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 options[1]

Part number	Description	Conduit hub size (in.)
VA2	Cone-top pendant	¾
VA3		1
VC2	Ceiling and pendant mount	¾
VC3		1
VB2-VIB	Wall mount	¾
VB3-VIB		1
P2	Rigid pendant	¾
P3		1
VS4-VIB	25° Angle stanchion	1¼
VS5-VIB		1½
VL4-VIB	Straight stanchion	1¼
VL5-VIB		1½
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]	-

Cone-top Pendant

Ceiling & Pendant Mount

Wall Mount

Rigid Pendant

25˚ Angle Stanchion

Straight Stanchion

HazVertor adapter ring

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

Heat-Resistant Globe

Refractor Globe R1

Refractor Globe R3

Refractor Globe R5

CUT

Guards

Part number	Description
VGU22	Cast Guard
VGU22P	Polymeric Guard

Cast Guard

Polymeric Guard

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

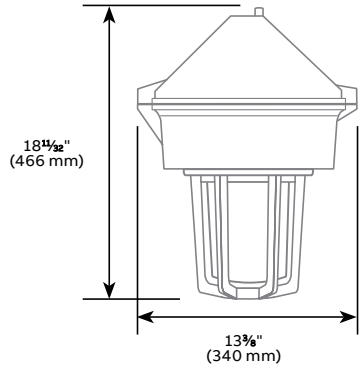
[1] For stainless steel inserts, please add "SI" to part no. (ex:VA2SI)
[2] HV3, HV4 and HV5 Hazvertors are CSA/CSAus certified and intended for us with Crouse-Hinds® top hats indicated. They are not compatible with HPM2 top hats.

XSL3 LED Series

Dimensions – Housing with mounting top, globe and guard

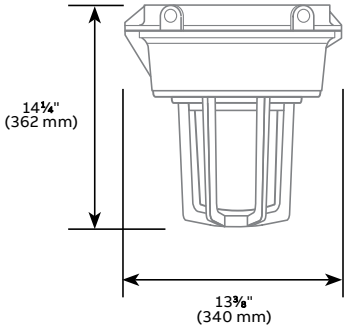
Cone-top pendant

7.3 kg | 16 lbs



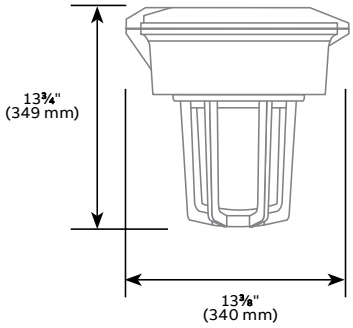
Ceiling and pendant mount

7.3 kg | 16 lbs



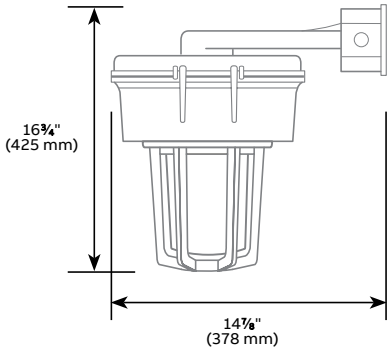
Rigid pendant mount

6.8 kg | 15 lbs



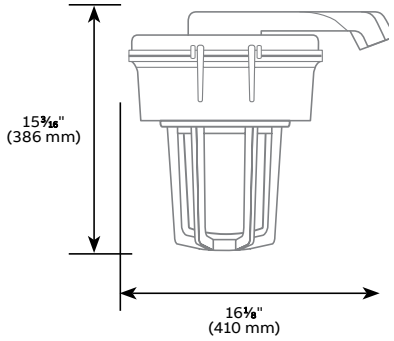
Wall mount

9.1 kg | 20 lbs



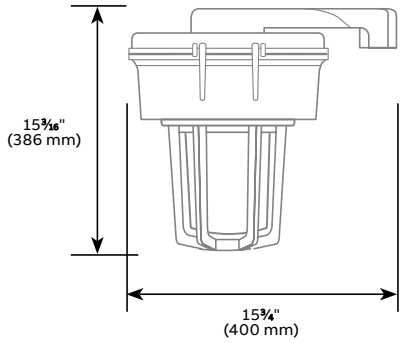
25° Angle stanchion

7.3 kg | 16 lbs



Straight stanchion

7.3 kg | 16 lbs



Design Lights Consortium (DLC): summary of test results

	Electrical, 120-277 VAC			Photometry, 120-277 VAC		Photometry, 120-277 VAC	
				TG globe		CUT reflector	
Model	Power (W)	Power factor	THD	Lumens	Lm/W	Lumens	Lm/W
XSL3005	37.7	0.91	13.5%	5,747	155.3	5,237	141.5
XSL3007	49.4	0.94	13.3%	7,607	156.6	6,832	140.8
XSL3010	71.9	0.97	10.1%	10,706	147.8	9,814	135.4
XSL3015	103.0	0.97	11.0%	16,063	155	14,564	140.7
XSL3017	115	0.97	11.8%	17,549	151.7	16,140	139.7
XSL3020	137	0.97	12.3%	20,468	147.2	18,782	135.3

	Electrical, 347 VAC			Photometry, 347 VAC		Photometry, 347 VAC	
				TG globe		CUT reflector	
Model	Power (W)	Power factor	THD	Lumens	Lm/W	Lumens	Lm/W
XSL3005	36.7	0.98	10.2%	-	-	-	-
XSL3007	47.9	0.99	8.3%	-	-	-	-
XSL3010	70.2	0.99	7.1%	10,582	147.7	9,659	134.9
XSL3015	104.9	0.99	7.6%	-	-	-	-
XSL3017	116.7	0.99	7.1%	-	-	-	-
XSL3020	141.2	0.99	7.8%	21,284	149.6	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

Hazvertor™ compatiblity

01

02

03

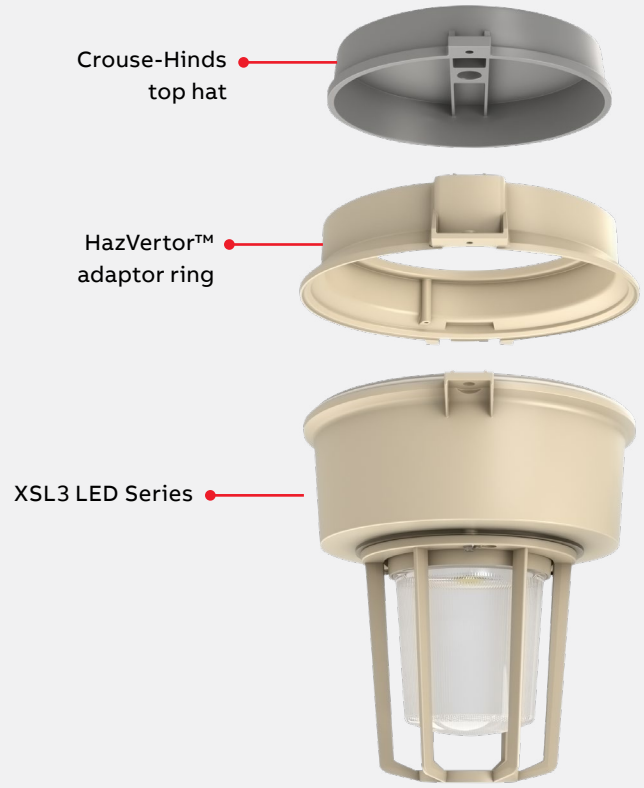
01 HazVertor™ adaptor ring, model HV3

02 HazVertor™ adaptor ring, angle machining, model HV4

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

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

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

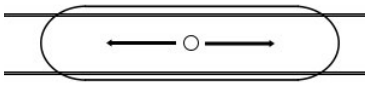


Refractor types

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.

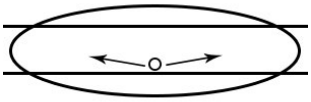
Type I is a two-way lateral distribution having a preferred lateral width of 15 degrees in the cone of maximum candlepower. The two principal light concentrations are in opposite directions along a roadway. This type is generally applicable to a luminaire location near the center of a roadway where the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

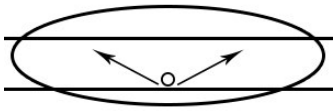
Type II light distributions have a preferred lateral width of 25 degrees. They are generally applicable to luminaires located at or near the side of relatively narrow roadways, where the width of the roadway does not exceed 1.75 times the designed mounting height.



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.

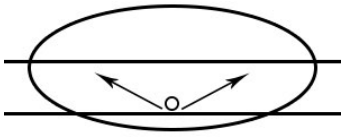
Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



Type IV

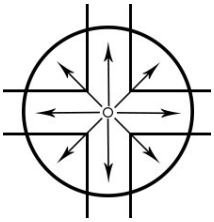
The type IV distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It's best for illuminating the perimeter of parking areas and businesses. The intensity of the Type IV lighting has the same intensity at angles from 90 degrees to 270 degrees.

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.



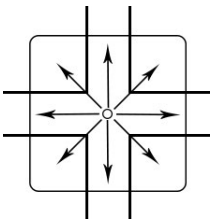
Type V

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.

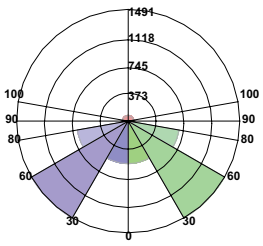


XSL3 LED Series

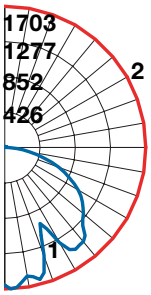
Optic selections

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



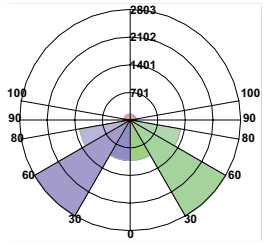
Candlepower curve



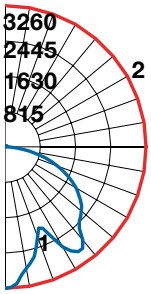
BUG rating : B2-U3-G1

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



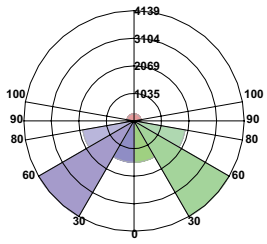
Candlepower curve



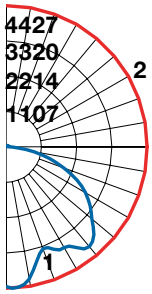
BUG rating : B3-U3-G2

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



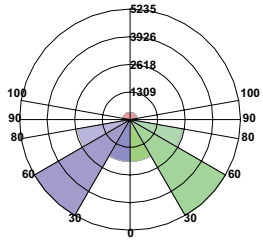
Candlepower curve



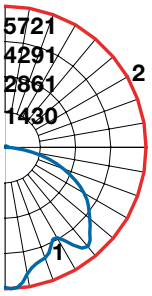
BUG rating : B3-U3-G3

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



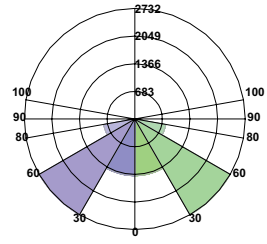
Candlepower curve



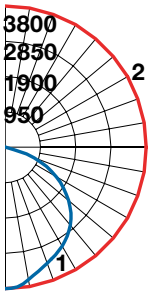
BUG rating : B4-U3-G3

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



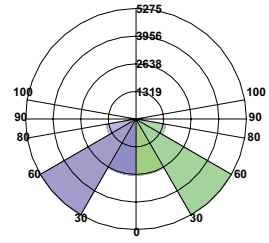
Candlepower curve



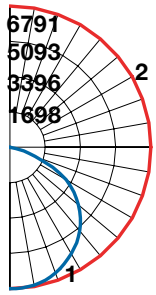
BUG rating : B3-U0-G1

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



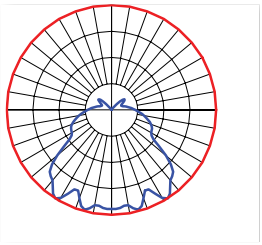
Candlepower curve



BUG rating : B4-U0-G1

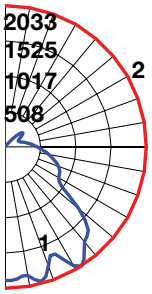
Standard globe	
Catalog number	**XSL3010-R5**
Luminaire lumens	8587
Luminaire efficacy rating (LER)	98
Input watts	87.48
Spacing criterion	
Spacing criterion (90–270)	
Spacing criterion (diagonal)	

Luminaire classification system



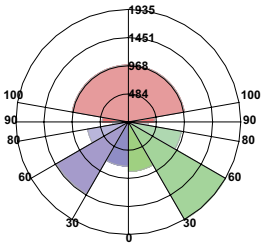
BUG rating : B2-U4-G3

Candlepower curve



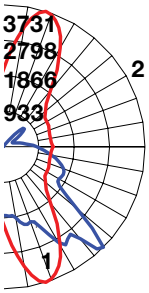
Standard globe	
Catalog number	**XSL3010-R3**
Luminaire lumens	8649
Luminaire efficacy rating (LER)	99
Input watts	87.27
Spacing criterion	
Spacing criterion (90–270)	
Spacing criterion (diagonal)	

Luminaire classification system



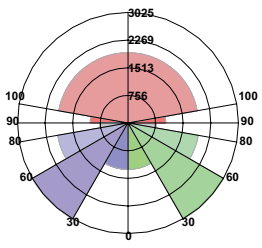
BUG rating : B2-U4-G3

Candlepower curve



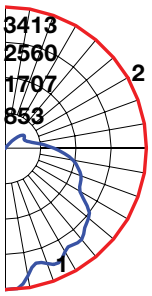
CUT reflector	
Catalog number	**XSL3020-R5**
Luminaire lumens	17,004
Luminaire efficacy rating (LER)	102
Input watts	166.3
Spacing criterion	
Spacing criterion (90–270)	
Spacing criterion (diagonal)	

Luminaire classification system



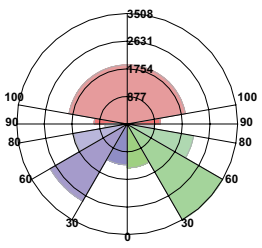
BUG rating : B2-U5-G5

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